



API Reference

# AWS Clean Rooms



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# AWS Clean Rooms: API Reference

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# Welcome

Welcome to the *AWS Clean Rooms API Reference*.

AWS Clean Rooms is an AWS service that helps multiple parties to join their data together in a secure collaboration workspace. In the collaboration, members who can query and receive results can get insights into the collective datasets without either party getting access to the other party's raw data.

To learn more about AWS Clean Rooms concepts, procedures, and best practices, see the [AWS Clean Rooms User Guide](#).

To learn more about SQL commands, functions, and conditions supported in AWS Clean Rooms, see the [AWS Clean Rooms SQL Reference](#).

This document was last published on July 2, 2024.

# Actions

The following actions are supported:

- [BatchGetCollaborationAnalysisTemplate](#)
- [BatchGetSchema](#)
- [BatchGetSchemaAnalysisRule](#)
- [CreateAnalysisTemplate](#)
- [CreateCollaboration](#)
- [CreateConfiguredAudienceModelAssociation](#)
- [CreateConfiguredTable](#)
- [CreateConfiguredTableAnalysisRule](#)
- [CreateConfiguredTableAssociation](#)
- [CreateMembership](#)
- [CreatePrivacyBudgetTemplate](#)
- [DeleteAnalysisTemplate](#)
- [DeleteCollaboration](#)
- [DeleteConfiguredAudienceModelAssociation](#)
- [DeleteConfiguredTable](#)
- [DeleteConfiguredTableAnalysisRule](#)
- [DeleteConfiguredTableAssociation](#)
- [DeleteMember](#)
- [DeleteMembership](#)
- [DeletePrivacyBudgetTemplate](#)
- [GetAnalysisTemplate](#)
- [GetCollaboration](#)
- [GetCollaborationAnalysisTemplate](#)
- [GetCollaborationConfiguredAudienceModelAssociation](#)
- [GetCollaborationPrivacyBudgetTemplate](#)
- [GetConfiguredAudienceModelAssociation](#)
- [GetConfiguredTable](#)

- [GetConfiguredTableAnalysisRule](#)
- [GetConfiguredTableAssociation](#)
- [GetMembership](#)
- [GetPrivacyBudgetTemplate](#)
- [GetProtectedQuery](#)
- [GetSchema](#)
- [GetSchemaAnalysisRule](#)
- [ListAnalysisTemplates](#)
- [ListCollaborationAnalysisTemplates](#)
- [ListCollaborationConfiguredAudienceModelAssociations](#)
- [ListCollaborationPrivacyBudgets](#)
- [ListCollaborationPrivacyBudgetTemplates](#)
- [ListCollaborations](#)
- [ListConfiguredAudienceModelAssociations](#)
- [ListConfiguredTableAssociations](#)
- [ListConfiguredTables](#)
- [ListMembers](#)
- [ListMemberships](#)
- [ListPrivacyBudgets](#)
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- [UntagResource](#)
- [UpdateAnalysisTemplate](#)
- [UpdateCollaboration](#)
- [UpdateConfiguredAudienceModelAssociation](#)

- [UpdateConfiguredTable](#)
- [UpdateConfiguredTableAnalysisRule](#)
- [UpdateConfiguredTableAssociation](#)
- [UpdateMembership](#)
- [UpdatePrivacyBudgetTemplate](#)
- [UpdateProtectedQuery](#)

# BatchGetCollaborationAnalysisTemplate

Retrieves multiple analysis templates within a collaboration by their Amazon Resource Names (ARNs).

## Request Syntax

```
POST /collaborations/collaborationIdentifier/batch-analysis-templates HTTP/1.1
Content-type: application/json

{
  "analysisTemplateArns": [ "string" ]
}
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

A unique identifier for the collaboration that the analysis templates belong to. Currently accepts collaboration ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### analysisTemplateArns

The Amazon Resource Name (ARN) associated with the analysis template within a collaboration.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/analysis-template/[\d\w-]+`

Required: Yes

## Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "collaborationAnalysisTemplates": [
    {
      "analysisParameters": [
        {
          "defaultValue": "string",
          "name": "string",
          "type": "string"
        }
      ],
      "arn": "string",
      "collaborationArn": "string",
      "collaborationId": "string",
      "createTime": number,
      "creatorAccountId": "string",
      "description": "string",
      "format": "string",
      "id": "string",
      "name": "string",
      "schema": {
        "referencedTables": [ "string" ]
      },
      "source": { ... },
      "updateTime": number,
      "validations": [
        {
          "reasons": [
            {
              "message": "string"
            }
          ]
        }
      ]
    }
  ]
}
```

```
    ],
    "status": "string",
    "type": "string"
  }
]
},
"errors": [
  {
    "arn": "string",
    "code": "string",
    "message": "string"
  }
]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### collaborationAnalysisTemplates

The retrieved list of analysis templates within a collaboration.

Type: Array of [CollaborationAnalysisTemplate](#) objects

Array Members: Minimum number of 0 items. Maximum number of 10 items.

### errors

Error reasons for collaboration analysis templates that could not be retrieved. One error is returned for every collaboration analysis template that could not be retrieved.

Type: Array of [BatchGetCollaborationAnalysisTemplateError](#) objects

Array Members: Minimum number of 0 items. Maximum number of 10 items.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

## **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

## **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

## **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

## **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

## **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)



- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# BatchGetSchema

Retrieves multiple schemas by their identifiers.

## Request Syntax

```
POST /collaborations/collaborationIdentifier/batch-schema HTTP/1.1
Content-type: application/json

{
  "names": [ "string" ]
}
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

A unique identifier for the collaboration that the schemas belong to. Currently accepts collaboration ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### names

The names for the schema objects to retrieve.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 25 items.

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_ ]+- )*( [a-zA-Z0-9_ ]+ ))?`

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "errors": [
    {
      "code": "string",
      "message": "string",
      "name": "string"
    }
  ],
  "schemas": [
    {
      "analysisMethod": "string",
      "analysisRuleTypes": [ "string" ],
      "collaborationArn": "string",
      "collaborationId": "string",
      "columns": [
        {
          "name": "string",
          "type": "string"
        }
      ],
      "createTime": number,
      "creatorAccountId": "string",
      "description": "string",
      "name": "string",
      "partitionKeys": [
        {
          "name": "string",
          "type": "string"
        }
      ],
      "schemaStatusDetails": [
        {
```

```
    "analysisRuleType": "string",
    "configurations": [ "string" ],
    "reasons": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "status": "string"
  }
],
"type": "string",
"updateTime": number
}
]
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### errors

Error reasons for schemas that could not be retrieved. One error is returned for every schema that could not be retrieved.

Type: Array of [BatchGetSchemaError](#) objects

Array Members: Minimum number of 0 items. Maximum number of 25 items.

### schemas

The retrieved list of schemas.

Type: Array of [Schema](#) objects

Array Members: Minimum number of 0 items. Maximum number of 25 items.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

## **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

## **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

## **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

## **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

## **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# BatchGetSchemaAnalysisRule

Retrieves multiple analysis rule schemas.

## Request Syntax

```
POST /collaborations/collaborationIdentifier/batch-schema-analysis-rule HTTP/1.1
Content-type: application/json
```

```
{
  "schemaAnalysisRuleRequests": [
    {
      "name": "string",
      "type": "string"
    }
  ]
}
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

The unique identifier of the collaboration that contains the schema analysis rule.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### schemaAnalysisRuleRequests

The information that's necessary to retrieve a schema analysis rule.

Type: Array of [SchemaAnalysisRuleRequest](#) objects

Array Members: Minimum number of 1 item. Maximum number of 25 items.

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "analysisRules": [
    {
      "collaborationId": "string",
      "createTime": number,
      "name": "string",
      "policy": { ... },
      "type": "string",
      "updateTime": number
    }
  ],
  "errors": [
    {
      "code": "string",
      "message": "string",
      "name": "string",
      "type": "string"
    }
  ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [analysisRules](#)

The retrieved list of analysis rules.

Type: Array of [AnalysisRule](#) objects



Array Members: Minimum number of 0 items. Maximum number of 25 items.

## errors

Error reasons for schemas that could not be retrieved. One error is returned for every schema that could not be retrieved.

Type: Array of [BatchGetSchemaAnalysisRuleError](#) objects

Array Members: Minimum number of 0 items. Maximum number of 25 items.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateAnalysisTemplate

Creates a new analysis template.

## Request Syntax

```
POST /memberships/membershipIdentifier/analysisemplates HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "analysisParameters": [
    {
      "defaultValue": "string",
      "name": "string",
      "type": "string"
    }
  ],
  "description": "string",
  "format": "string",
  "name": "string",
  "source": { ... },
  "tags": {
    "string" : "string"
  }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

The identifier for a membership resource.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### analysisParameters

The parameters of the analysis template.

Type: Array of [AnalysisParameter](#) objects

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Required: No

### description

The description of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

### format

The format of the analysis template.

Type: String

Valid Values: SQL

Required: Yes

### name

The name of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_ ]+ - )*( [a-zA-Z0-9_ ]+ ))?`

Required: Yes

## source

The information in the analysis template. Currently supports text, the query text for the analysis template.

Type: [AnalysisSource](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

## tags

An optional label that you can assign to a resource when you create it. Each tag consists of a key and an optional value, both of which you define. When you use tagging, you can also use tag-based access control in IAM policies to control access to this resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "analysisTemplate": {
    "analysisParameters": [
      {
        "defaultValue": "string",
        "name": "string",
        "type": "string"
      }
    ],
    "arn": "string",
    "collaborationArn": "string",
```

```
"collaborationId": "string",
"createTime": number,
"description": "string",
"format": "string",
"id": "string",
"membershipArn": "string",
"membershipId": "string",
"name": "string",
"schema": {
  "referencedTables": [ "string" ]
},
"source": { ... },
"updateTime": number,
"validations": [
  {
    "reasons": [
      {
        "message": "string"
      }
    ],
    "status": "string",
    "type": "string"
  }
]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### analysisTemplate

The analysis template.

Type: [AnalysisTemplate](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

## **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

## **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

## **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

## **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

## **ServiceQuotaExceededException**

Request denied because service quota has been exceeded.

HTTP Status Code: 402

## **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

## **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# CreateCollaboration

Creates a new collaboration.

## Request Syntax

```
POST /collaborations HTTP/1.1
Content-type: application/json
```

```
{
  "creatorDisplayName": "string",
  "creatorMemberAbilities": [ "string" ],
  "creatorPaymentConfiguration": {
    "queryCompute": {
      "isResponsible": boolean
    }
  },
  "dataEncryptionMetadata": {
    "allowCleartext": boolean,
    "allowDuplicates": boolean,
    "allowJoinsOnColumnsWithDifferentNames": boolean,
    "preserveNulls": boolean
  },
  "description": "string",
  "members": [
    {
      "accountId": "string",
      "displayName": "string",
      "memberAbilities": [ "string" ],
      "paymentConfiguration": {
        "queryCompute": {
          "isResponsible": boolean
        }
      }
    }
  ],
  "name": "string",
  "queryLogStatus": "string",
  "tags": {
    "string" : "string"
  }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### creatorDisplayName

The display name of the collaboration creator.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: (?!\s\*\$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]\*

Required: Yes

### creatorMemberAbilities

The abilities granted to the collaboration creator.

Type: Array of strings

Valid Values: CAN\_QUERY | CAN\_RECEIVE\_RESULTS

Required: Yes

### creatorPaymentConfiguration

The collaboration creator's payment responsibilities set by the collaboration creator.

If the collaboration creator hasn't specified anyone as the member paying for query compute costs, then the member who can query is the default payer.

Type: [PaymentConfiguration](#) object

Required: No

### dataEncryptionMetadata

The settings for client-side encryption with Cryptographic Computing for Clean Rooms.

Type: [DataEncryptionMetadata](#) object

Required: No

### description

A description of the collaboration provided by the collaboration owner.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: (?!\s\*\$)[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]\*

Required: Yes

### members

A list of initial members, not including the creator. This list is immutable.

Type: Array of [MemberSpecification](#) objects

Array Members: Minimum number of 0 items. Maximum number of 9 items.

Required: Yes

### name

The display name for a collaboration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: (?!\s\*\$)[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t]\*

Required: Yes

### queryLogStatus

An indicator as to whether query logging has been enabled or disabled for the collaboration.

Type: String

Valid Values: ENABLED | DISABLED

Required: Yes

## tags

An optional label that you can assign to a resource when you create it. Each tag consists of a key and an optional value, both of which you define. When you use tagging, you can also use tag-based access control in IAM policies to control access to this resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "collaboration": {
    "arn": "string",
    "createTime": number,
    "creatorAccountId": "string",
    "creatorDisplayName": "string",
    "dataEncryptionMetadata": {
      "allowCleartext": boolean,
      "allowDuplicates": boolean,
      "allowJoinsOnColumnsWithDifferentNames": boolean,
      "preserveNulls": boolean
    },
    "description": "string",
    "id": "string",
    "membershipArn": "string",
    "membershipId": "string",
    "memberStatus": "string",
    "name": "string",
    "queryLogStatus": "string",
    "updateTime": number
  }
}
```

```
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### collaboration

The entire created collaboration object.

Type: [Collaboration](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ServiceQuotaExceededException**

Request denied because service quota has been exceeded.

HTTP Status Code: 402

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateConfiguredAudienceModelAssociation

Provides the details necessary to create a configured audience model association.

## Request Syntax

```
POST /memberships/membershipIdentifier/configuredaudiencemodelassociations HTTP/1.1
Content-type: application/json
```

```
{
  "configuredAudienceModelArn": "string",
  "configuredAudienceModelAssociationName": "string",
  "description": "string",
  "manageResourcePolicies": boolean,
  "tags": {
    "string" : "string"
  }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

A unique identifier for one of your memberships for a collaboration. The configured audience model is associated to the collaboration that this membership belongs to. Accepts a membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### configuredAudienceModelArn

A unique identifier for the configured audience model that you want to associate.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-m1:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[-a-zA-Z0-9_/.]+`

Required: Yes

### [configuredAudienceModelAssociationName](#)

The name of the configured audience model association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

### [description](#)

A description of the configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t\\r\\n]*`

Required: No

### [manageResourcePolicies](#)

When TRUE, indicates that the resource policy for the configured audience model resource being associated is configured for AWS Clean Rooms to manage permissions related to the given collaboration. When FALSE, indicates that the configured audience model resource owner will manage permissions related to the given collaboration.

Setting this to TRUE requires you to have permissions to create, update, and delete the resource policy for the `cleanrooms-m1` resource when you call the [DeleteConfiguredAudienceModelAssociation](#) resource. In addition, if you are the collaboration



creator and specify TRUE, you must have the same permissions when you call the [DeleteMember](#) and [DeleteCollaboration](#) APIs.

Type: Boolean

Required: Yes

## [tags](#)

An optional label that you can assign to a resource when you create it. Each tag consists of a key and an optional value, both of which you define. When you use tagging, you can also use tag-based access control in IAM policies to control access to this resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "configuredAudienceModelAssociation": {
    "arn": "string",
    "collaborationArn": "string",
    "collaborationId": "string",
    "configuredAudienceModelArn": "string",
    "createTime": number,
    "description": "string",
    "id": "string",
    "manageResourcePolicies": boolean,
    "membershipArn": "string",
    "membershipId": "string",
    "name": "string",
    "updateTime": number
  }
}
```

```
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [configuredAudienceModelAssociation](#)

Information about the configured audience model association.

Type: [ConfiguredAudienceModelAssociation](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

Request denied because service quota has been exceeded.

HTTP Status Code: 402

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateConfiguredTable

Creates a new configured table resource.

## Request Syntax

```
POST /configuredTables HTTP/1.1
Content-type: application/json

{
  "allowedColumns": [ "string" ],
  "analysisMethod": "string",
  "description": "string",
  "name": "string",
  "tableReference": { ... },
  "tags": {
    "string" : "string"
  }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### allowedColumns

The columns of the underlying table that can be used by collaborations or analysis rules.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 225 items.

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-z0-9_]+([a-z0-9_]+)*([a-z0-9_]+)?`

Required: Yes

## analysisMethod

The analysis method for the configured tables. The only valid value is currently ``DIRECT_QUERY``.

Type: String

Valid Values: DIRECT\_QUERY

Required: Yes

## description

A description for the configured table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\u007F\u00E0-\u00FF\uD800-\uDBFF-\uDC00-\uDFFF\t\r\n]*`

Required: No

## name

The name of the configured table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\\s*$)[\u0020-\u007F\u00E0-\u00FF\uD800-\uDBFF-\uDC00-\uDFFF\t]*`

Required: Yes

## tableReference

A reference to the AWS Glue table being configured.

Type: [TableReference](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

## tags

An optional label that you can assign to a resource when you create it. Each tag consists of a key and an optional value, both of which you define. When you use tagging, you can also use tag-based access control in IAM policies to control access to this resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "configuredTable": {
    "allowedColumns": [ "string" ],
    "analysisMethod": "string",
    "analysisRuleTypes": [ "string" ],
    "arn": "string",
    "createTime": number,
    "description": "string",
    "id": "string",
    "name": "string",
    "tableReference": { ... },
    "updateTime": number
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

## configuredTable

The created configured table.

Type: [ConfiguredTable](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

Request denied because service quota has been exceeded.

HTTP Status Code: 402

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# CreateConfiguredTableAnalysisRule

Creates a new analysis rule for a configured table. Currently, only one analysis rule can be created for a given configured table.

## Request Syntax

```
POST /configuredTables/configuredTableIdentifier/analysisRule HTTP/1.1
Content-type: application/json
```

```
{
  "analysisRulePolicy": { ... },
  "analysisRuleType": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### configuredTableIdentifier

The identifier for the configured table to create the analysis rule for. Currently accepts the configured table ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### analysisRulePolicy

The entire created configured table analysis rule object.

Type: [ConfiguredTableAnalysisRulePolicy](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

### analysisRuleType

The type of analysis rule.

Type: String

Valid Values: AGGREGATION | LIST | CUSTOM

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "analysisRule": {
    "configuredTableArn": "string",
    "configuredTableId": "string",
    "createTime": number,
    "policy": { ... },
    "type": "string",
    "updateTime": number
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### analysisRule

The entire created analysis rule.

Type: [ConfiguredTableAnalysisRule](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)

- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateConfiguredTableAssociation

Creates a configured table association. A configured table association links a configured table with a collaboration.

## Request Syntax

```
POST /memberships/membershipIdentifier/configuredTableAssociations HTTP/1.1
Content-type: application/json
```

```
{
  "configuredTableIdentifier": "string",
  "description": "string",
  "name": "string",
  "roleArn": "string",
  "tags": {
    "string" : "string"
  }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

A unique identifier for one of your memberships for a collaboration. The configured table is associated to the collaboration that this membership belongs to. Currently accepts a membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### configuredTableIdentifier

A unique identifier for the configured table to be associated to. Currently accepts a configured table ID.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### description

A description for the configured table association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

### name

The name of the configured table association. This name is used to query the underlying configured table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_ ]+ )*( [a-zA-Z0-9_ ]+ ) )?`

Required: Yes

### roleArn

The service will assume this role to access catalog metadata and query the table.

Type: String

Length Constraints: Minimum length of 32. Maximum length of 512.

Pattern: `arn:aws:iam:[\w]+:role/[\w+=./@-]+`

Required: Yes

## tags

An optional label that you can assign to a resource when you create it. Each tag consists of a key and an optional value, both of which you define. When you use tagging, you can also use tag-based access control in IAM policies to control access to this resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "configuredTableAssociation": {
    "arn": "string",
    "configuredTableArn": "string",
    "configuredTableId": "string",
    "createTime": number,
    "description": "string",
    "id": "string",
    "membershipArn": "string",
    "membershipId": "string",
    "name": "string",
    "roleArn": "string",
    "updateTime": number
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### **configuredTableAssociation**

The entire configured table association object.

Type: [ConfiguredTableAssociation](#) object

## **Errors**

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

Request denied because service quota has been exceeded.

HTTP Status Code: 402

### **ThrottlingException**

Request was denied due to request throttling.



HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateMembership

Creates a membership for a specific collaboration identifier and joins the collaboration.

## Request Syntax

```
POST /memberships HTTP/1.1
Content-type: application/json

{
  "collaborationIdentifier": "string",
  "defaultResultConfiguration": {
    "outputConfiguration": { ... },
    "roleArn": "string"
  },
  "paymentConfiguration": {
    "queryCompute": {
      "isResponsible": boolean
    }
  },
  "queryLogStatus": "string",
  "tags": {
    "string" : "string"
  }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### collaborationIdentifier

The unique ID for the associated collaboration.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### defaultResultConfiguration

The default protected query result configuration as specified by the member who can receive results.

Type: [MembershipProtectedQueryResultConfiguration](#) object

Required: No

### paymentConfiguration

The payment responsibilities accepted by the collaboration member.

Not required if the collaboration member has the member ability to run queries.

Required if the collaboration member doesn't have the member ability to run queries but is configured as a payer by the collaboration creator.

Type: [MembershipPaymentConfiguration](#) object

Required: No

### queryLogStatus

An indicator as to whether query logging has been enabled or disabled for the membership.

Type: String

Valid Values: ENABLED | DISABLED

Required: Yes

### tags

An optional label that you can assign to a resource when you create it. Each tag consists of a key and an optional value, both of which you define. When you use tagging, you can also use tag-based access control in IAM policies to control access to this resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "membership": {
    "arn": "string",
    "collaborationArn": "string",
    "collaborationCreatorAccountId": "string",
    "collaborationCreatorDisplayName": "string",
    "collaborationId": "string",
    "collaborationName": "string",
    "createTime": number,
    "defaultResultConfiguration": {
      "outputConfiguration": { ... },
      "roleArn": "string"
    },
    "id": "string",
    "memberAbilities": [ "string" ],
    "paymentConfiguration": {
      "queryCompute": {
        "isResponsible": boolean
      }
    },
    "queryLogStatus": "string",
    "status": "string",
    "updateTime": number
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

## membership

The membership that was created.

Type: [Membership](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

Request denied because service quota has been exceeded.

HTTP Status Code: 402

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreatePrivacyBudgetTemplate

Creates a privacy budget template for a specified membership. Each membership can have only one privacy budget template, but it can be deleted and recreated. If you need to change the privacy budget template for a membership, use the [UpdatePrivacyBudgetTemplate](#) operation.

## Request Syntax

```
POST /memberships/membershipIdentifier/privacybudgettemplates HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "autoRefresh": "string",
  "parameters": { ... },
  "privacyBudgetType": "string",
  "tags": {
    "string" : "string"
  }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### [membershipIdentifier](#)

A unique identifier for one of your memberships for a collaboration. The privacy budget template is created in the collaboration that this membership belongs to. Accepts a membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

## autoRefresh

How often the privacy budget refreshes.

### **Important**

If you plan to regularly bring new data into the collaboration, you can use `CALENDAR_MONTH` to automatically get a new privacy budget for the collaboration every calendar month. Choosing this option allows arbitrary amounts of information to be revealed about rows of the data when repeatedly queries across refreshes. Avoid choosing this if the same rows will be repeatedly queried between privacy budget refreshes.

Type: String

Valid Values: `CALENDAR_MONTH` | `NONE`

Required: Yes

## parameters

Specifies your parameters for the privacy budget template.

Type: [PrivacyBudgetTemplateParametersInput](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

## privacyBudgetType

Specifies the type of the privacy budget template.

Type: String

Valid Values: `DIFFERENTIAL_PRIVACY`

Required: Yes

## tags

An optional label that you can assign to a resource when you create it. Each tag consists of a key and an optional value, both of which you define. When you use tagging, you can also use tag-based access control in IAM policies to control access to this resource.



Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "privacyBudgetTemplate": {
    "arn": "string",
    "autoRefresh": "string",
    "collaborationArn": "string",
    "collaborationId": "string",
    "createTime": number,
    "id": "string",
    "membershipArn": "string",
    "membershipId": "string",
    "parameters": { ... },
    "privacyBudgetType": "string",
    "updateTime": number
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [privacyBudgetTemplate](#)

A summary of the elements in the privacy budget template.

Type: [PrivacyBudgetTemplate](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)

- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteAnalysisTemplate

Deletes an analysis template.

## Request Syntax

```
DELETE /memberships/membershipIdentifier/analysistemplates/analysisTemplateIdentifier
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### analysisTemplateIdentifier

The identifier for the analysis template resource.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### membershipIdentifier

The identifier for a membership resource.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)

- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteCollaboration

Deletes a collaboration. It can only be called by the collaboration owner.

## Request Syntax

```
DELETE /collaborations/collaborationIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

The identifier for the collaboration.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

## AccessDeniedException

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

## InternalServerError

Unexpected error during processing of request.

HTTP Status Code: 500

## ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# DeleteConfiguredAudienceModelAssociation

Provides the information necessary to delete a configured audience model association.

## Request Syntax

```
DELETE /memberships/membershipIdentifier/  
configuredaudiencemodelassociations/configuredAudienceModelAssociationIdentifier  
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### configuredAudienceModelAssociationIdentifier

A unique identifier of the configured audience model association that you want to delete.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### membershipIdentifier

A unique identifier of the membership that contains the audience model association that you want to delete.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)

- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteConfiguredTable

Deletes a configured table.

## Request Syntax

```
DELETE /configuredTables/configuredTableIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### configuredTableIdentifier

The unique ID for the configured table to delete.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

## **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

## **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

## **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

## **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

## **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

## **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteConfiguredTableAnalysisRule

Deletes a configured table analysis rule.

## Request Syntax

```
DELETE /configuredTables/configuredTableIdentifier/analysisRule/analysisRuleType
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### analysisRuleType

The analysis rule type to be deleted. Configured table analysis rules are uniquely identified by their configured table identifier and analysis rule type.

Valid Values: AGGREGATION | LIST | CUSTOM

Required: Yes

### configuredTableIdentifier

The unique identifier for the configured table that the analysis rule applies to. Currently accepts the configured table ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400



## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteConfiguredTableAssociation

Deletes a configured table association.

## Request Syntax

```
DELETE /memberships/membershipIdentifier/  
configuredTableAssociations/configuredTableAssociationIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### configuredTableAssociationIdentifier

The unique ID for the configured table association to be deleted. Currently accepts the configured table ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### membershipIdentifier

A unique identifier for the membership that the configured table association belongs to. Currently accepts the membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteMember

Removes the specified member from a collaboration. The removed member is placed in the Removed status and can't interact with the collaboration. The removed member's data is inaccessible to active members of the collaboration.

## Request Syntax

```
DELETE /collaborations/collaborationIdentifier/member/accountId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### accountId

The account ID of the member to remove.

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

### collaborationIdentifier

The unique identifier for the associated collaboration.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteMembership

Deletes a specified membership. All resources under a membership must be deleted.

## Request Syntax

```
DELETE /memberships/membershipIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

The identifier for a membership resource.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).



## **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

## **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

## **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

## **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

## **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

## **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeletePrivacyBudgetTemplate

Deletes a privacy budget template for a specified membership.

## Request Syntax

```
DELETE /memberships/membershipIdentifier/  
privacybudgettemplates/privacyBudgetTemplateIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

A unique identifier for one of your memberships for a collaboration. The privacy budget template is deleted from the collaboration that this membership belongs to. Accepts a membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### privacyBudgetTemplateIdentifier

A unique identifier for your privacy budget template.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### AccessDeniedException

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### InternalServerError

Unexpected error during processing of request.

HTTP Status Code: 500

### ResourceNotFoundException

Request references a resource which does not exist.

HTTP Status Code: 404

### ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

### ValidationException

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)

- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetAnalysisTemplate

Retrieves an analysis template.

## Request Syntax

```
GET /memberships/membershipIdentifier/analysis templates/analysisTemplateIdentifier
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### analysisTemplateIdentifier

The identifier for the analysis template resource.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### membershipIdentifier

The identifier for a membership resource.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
  "analysisTemplate": {
    "analysisParameters": [
      {
        "defaultValue": "string",
        "name": "string",
        "type": "string"
      }
    ],
    "arn": "string",
    "collaborationArn": "string",
    "collaborationId": "string",
    "createTime": number,
    "description": "string",
    "format": "string",
    "id": "string",
    "membershipArn": "string",
    "membershipId": "string",
    "name": "string",
    "schema": {
      "referencedTables": [ "string" ]
    },
    "source": { ... },
    "updateTime": number,
    "validations": [
      {
        "reasons": [
          {
            "message": "string"
          }
        ],
        "status": "string",
        "type": "string"
      }
    ]
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

## [analysisTemplate](#)

The analysis template.

Type: [AnalysisTemplate](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:



- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetCollaboration

Returns metadata about a collaboration.

## Request Syntax

```
GET /collaborations/collaborationIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

The identifier for the collaboration.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json
```

```
{
  "collaboration": {
    "arn": "string",
    "createTime": number,
    "creatorAccountId": "string",
    "creatorDisplayName": "string",
    "dataEncryptionMetadata": {
      "allowCleartext": boolean,
      "allowDuplicates": boolean,
      "allowJoinsOnColumnsWithDifferentNames": boolean,
```

```
    "preserveNulls": boolean
  },
  "description": "string",
  "id": "string",
  "membershipArn": "string",
  "membershipId": "string",
  "memberStatus": "string",
  "name": "string",
  "queryLogStatus": "string",
  "updateTime": number
}
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### collaboration

The entire collaboration for this identifier.

Type: [Collaboration](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetCollaborationAnalysisTemplate

Retrieves an analysis template within a collaboration.

## Request Syntax

```
GET /collaborations/collaborationIdentifier/analysistemplates/analysisTemplateArn
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### analysisTemplateArn

The Amazon Resource Name (ARN) associated with the analysis template within a collaboration.

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/analysistemplate/[\d\w-]+`

Required: Yes

### collaborationIdentifier

A unique identifier for the collaboration that the analysis templates belong to. Currently accepts collaboration ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

Content-type: application/json

```
{
  "collaborationAnalysisTemplate": {
    "analysisParameters": [
      {
        "defaultValue": "string",
        "name": "string",
        "type": "string"
      }
    ],
    "arn": "string",
    "collaborationArn": "string",
    "collaborationId": "string",
    "createTime": number,
    "creatorAccountId": "string",
    "description": "string",
    "format": "string",
    "id": "string",
    "name": "string",
    "schema": {
      "referencedTables": [ "string" ]
    },
    "source": { ... },
    "updateTime": number,
    "validations": [
      {
        "reasons": [
          {
            "message": "string"
          }
        ],
        "status": "string",
        "type": "string"
      }
    ]
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [collaborationAnalysisTemplate](#)

The analysis template within a collaboration.

Type: [CollaborationAnalysisTemplate](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# GetCollaborationConfiguredAudienceModelAssociation

Retrieves a configured audience model association within a collaboration.

## Request Syntax

```
GET /collaborations/collaborationIdentifier/  
configuredaudiencemodelassociations/configuredAudienceModelAssociationIdentifier  
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

A unique identifier for the collaboration that the configured audience model association belongs to. Accepts a collaboration ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### configuredAudienceModelAssociationIdentifier

A unique identifier for the configured audience model association that you want to retrieve.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "collaborationConfiguredAudienceModelAssociation": {
    "arn": "string",
    "collaborationArn": "string",
    "collaborationId": "string",
    "configuredAudienceModelArn": "string",
    "createTime": number,
    "creatorAccountId": "string",
    "description": "string",
    "id": "string",
    "name": "string",
    "updateTime": number
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### collaborationConfiguredAudienceModelAssociation

The metadata of the configured audience model association.

Type: [CollaborationConfiguredAudienceModelAssociation](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetCollaborationPrivacyBudgetTemplate

Returns details about a specified privacy budget template.

## Request Syntax

```
GET /collaborations/collaborationIdentifier/  
privacybudgettemplates/privacyBudgetTemplateIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

A unique identifier for one of your collaborations.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### privacyBudgetTemplateIdentifier

A unique identifier for one of your privacy budget templates.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200  
Content-type: application/json
```

```
{
  "collaborationPrivacyBudgetTemplate": {
    "arn": "string",
    "autoRefresh": "string",
    "collaborationArn": "string",
    "collaborationId": "string",
    "createTime": number,
    "creatorAccountId": "string",
    "id": "string",
    "parameters": { ... },
    "privacyBudgetType": "string",
    "updateTime": number
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### collaborationPrivacyBudgetTemplate

Returns the details of the privacy budget template that you requested.

Type: [CollaborationPrivacyBudgetTemplate](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

## ResourceNotFoundException

Request references a resource which does not exist.

HTTP Status Code: 404

## ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetConfiguredAudienceModelAssociation

Returns information about a configured audience model association.

## Request Syntax

```
GET /memberships/membershipIdentifier/
configuredaudiencemodelassociations/configuredAudienceModelAssociationIdentifier
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### configuredAudienceModelAssociationIdentifier

A unique identifier for the configured audience model association that you want to retrieve.

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

### membershipIdentifier

A unique identifier for the membership that contains the configured audience model association that you want to retrieve.

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "configuredAudienceModelAssociation": {
    "arn": "string",
    "collaborationArn": "string",
    "collaborationId": "string",
    "configuredAudienceModelArn": "string",
    "createTime": number,
    "description": "string",
    "id": "string",
    "manageResourcePolicies": boolean,
    "membershipArn": "string",
    "membershipId": "string",
    "name": "string",
    "updateTime": number
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### configuredAudienceModelAssociation

Information about the configured audience model association that you requested.

Type: [ConfiguredAudienceModelAssociation](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### AccessDeniedException

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### InternalServerErrorException

Unexpected error during processing of request.



HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetConfiguredTable

Retrieves a configured table.

## Request Syntax

```
GET /configuredTables/configuredTableIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### configuredTableIdentifier

The unique ID for the configured table to retrieve.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "configuredTable": {
    "allowedColumns": [ "string" ],
    "analysisMethod": "string",
    "analysisRuleTypes": [ "string" ],
    "arn": "string",
    "createTime": number,
    "description": "string",
    "id": "string",
```

```
"name": "string",  
"tableReference": { ... },  
"updateTime": number  
}  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### configuredTable

The retrieved configured table.

Type: [ConfiguredTable](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetConfiguredTableAnalysisRule

Retrieves a configured table analysis rule.

## Request Syntax

```
GET /configuredTables/configuredTableIdentifier/analysisRule/analysisRuleType HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### analysisRuleType

The analysis rule to be retrieved. Configured table analysis rules are uniquely identified by their configured table identifier and analysis rule type.

Valid Values: AGGREGATION | LIST | CUSTOM

Required: Yes

### configuredTableIdentifier

The unique identifier for the configured table to retrieve. Currently accepts the configured table ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200  
Content-type: application/json
```

```
{
  "analysisRule": {
    "configuredTableArn": "string",
    "configuredTableId": "string",
    "createTime": number,
    "policy": { ... },
    "type": "string",
    "updateTime": number
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### analysisRule

The entire analysis rule output.

Type: [ConfiguredTableAnalysisRule](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetConfiguredTableAssociation

Retrieves a configured table association.

## Request Syntax

```
GET /memberships/membershipIdentifier/  
configuredTableAssociations/configuredTableAssociationIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### configuredTableAssociationIdentifier

The unique ID for the configured table association to retrieve. Currently accepts the configured table ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### membershipIdentifier

A unique identifier for the membership that the configured table association belongs to. Currently accepts the membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```



```
Content-type: application/json

{
  "configuredTableAssociation": {
    "arn": "string",
    "configuredTableArn": "string",
    "configuredTableId": "string",
    "createTime": number,
    "description": "string",
    "id": "string",
    "membershipArn": "string",
    "membershipId": "string",
    "name": "string",
    "roleArn": "string",
    "updateTime": number
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [configuredTableAssociation](#)

The entire configured table association object.

Type: [ConfiguredTableAssociation](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetMembership

Retrieves a specified membership for an identifier.

## Request Syntax

```
GET /memberships/membershipIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

The identifier for a membership resource.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "membership": {
    "arn": "string",
    "collaborationArn": "string",
    "collaborationCreatorAccountId": "string",
    "collaborationCreatorDisplayName": "string",
    "collaborationId": "string",
    "collaborationName": "string",
    "createTime": number,
    "defaultResultConfiguration": {
```

```
    "outputConfiguration": { ... },
    "roleArn": "string"
  },
  "id": "string",
  "memberAbilities": [ "string" ],
  "paymentConfiguration": {
    "queryCompute": {
      "isResponsible": boolean
    }
  },
  "queryLogStatus": "string",
  "status": "string",
  "updateTime": number
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### membership

The membership retrieved for the provided identifier.

Type: [Membership](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

## ResourceNotFoundException

Request references a resource which does not exist.

HTTP Status Code: 404

## ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetPrivacyBudgetTemplate

Returns details for a specified privacy budget template.

## Request Syntax

```
GET /memberships/membershipIdentifier/  
privacybudgettemplates/privacyBudgetTemplateIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

A unique identifier for one of your memberships for a collaboration. The privacy budget template is retrieved from the collaboration that this membership belongs to. Accepts a membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### privacyBudgetTemplateIdentifier

A unique identifier for your privacy budget template.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "privacyBudgetTemplate": {
    "arn": "string",
    "autoRefresh": "string",
    "collaborationArn": "string",
    "collaborationId": "string",
    "createTime": number,
    "id": "string",
    "membershipArn": "string",
    "membershipId": "string",
    "parameters": { ... },
    "privacyBudgetType": "string",
    "updateTime": number
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [privacyBudgetTemplate](#)

Returns the details of the privacy budget template that you requested.

Type: [PrivacyBudgetTemplate](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# GetProtectedQuery

Returns query processing metadata.

## Request Syntax

```
GET /memberships/membershipIdentifier/protectedQueries/protectedQueryIdentifier
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

The identifier for a membership in a protected query instance.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### protectedQueryIdentifier

The identifier for a protected query instance.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
```

```

"protectedQuery": {
  "createTime": number,
  "differentialPrivacy": {
    "sensitivityParameters": [
      {
        "aggregationExpression": "string",
        "aggregationType": "string",
        "maxColumnValue": number,
        "minColumnValue": number,
        "userContributionLimit": number
      }
    ]
  },
  "error": {
    "code": "string",
    "message": "string"
  },
  "id": "string",
  "membershipArn": "string",
  "membershipId": "string",
  "result": {
    "output": { ... }
  },
  "resultConfiguration": {
    "outputConfiguration": { ... }
  },
  "sqlParameters": {
    "analysisTemplateArn": "string",
    "parameters": {
      "string" : "string"
    },
    "queryString": "string"
  },
  "statistics": {
    "totalDurationInMillis": number
  },
  "status": "string"
}
}

```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [protectedQuery](#)

The query processing metadata.

Type: [ProtectedQuery](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetSchema

Retrieves the schema for a relation within a collaboration.

## Request Syntax

```
GET /collaborations/collaborationIdentifier/schemas/name HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

A unique identifier for the collaboration that the schema belongs to. Currently accepts a collaboration ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### name

The name of the relation to retrieve the schema for.

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_ ]+ )*( [a-zA-Z0-9_ ]+ ) )?`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200  
Content-type: application/json
```

```
{
  "schema": {
    "analysisMethod": "string",
    "analysisRuleTypes": [ "string" ],
    "collaborationArn": "string",
    "collaborationId": "string",
    "columns": [
      {
        "name": "string",
        "type": "string"
      }
    ],
    "createTime": number,
    "creatorAccountId": "string",
    "description": "string",
    "name": "string",
    "partitionKeys": [
      {
        "name": "string",
        "type": "string"
      }
    ],
    "schemaStatusDetails": [
      {
        "analysisRuleType": "string",
        "configurations": [ "string" ],
        "reasons": [
          {
            "code": "string",
            "message": "string"
          }
        ],
        "status": "string"
      }
    ],
    "type": "string",
    "updateTime": number
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### schema

The entire schema object.

Type: [Schema](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# GetSchemaAnalysisRule

Retrieves a schema analysis rule.

## Request Syntax

```
GET /collaborations/collaborationIdentifier/schemas/name/analysisRule/type HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

A unique identifier for the collaboration that the schema belongs to. Currently accepts a collaboration ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### name

The name of the schema to retrieve the analysis rule for.

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_ ]+ )*( [a-zA-Z0-9_ ]+ ) )?`

Required: Yes

### type

The type of the schema analysis rule to retrieve. Schema analysis rules are uniquely identified by a combination of the collaboration, the schema name, and their type.

Valid Values: AGGREGATION | LIST | CUSTOM

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "analysisRule": {
    "collaborationId": "string",
    "createTime": number,
    "name": "string",
    "policy": { ... },
    "type": "string",
    "updateTime": number
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### analysisRule

A specification about how data from the configured table can be used.

Type: [AnalysisRule](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

## InternalServerErrorException

Unexpected error during processing of request.

HTTP Status Code: 500

## ResourceNotFoundException

Request references a resource which does not exist.

HTTP Status Code: 404

## ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListAnalysisTemplates

Lists analysis templates that the caller owns.

## Request Syntax

```
GET /memberships/membershipIdentifier/analysistemplates?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum size of the results that is returned per call.

Valid Range: Minimum value of 1. Maximum value of 100.

### membershipIdentifier

The identifier for a membership resource.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### nextToken

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "analysisTemplateSummaries": [
    {
      "arn": "string",
      "collaborationArn": "string",
      "collaborationId": "string",
      "createTime": number,
      "description": "string",
      "id": "string",
      "membershipArn": "string",
      "membershipId": "string",
      "name": "string",
      "updateTime": number
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [analysisTemplateSummaries](#)

Lists analysis template metadata.

Type: Array of [AnalysisTemplateSummary](#) objects

### [nextToken](#)

The token value retrieved from a previous call to access the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

## **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

## **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

## **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

## **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

## **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListCollaborationAnalysisTemplates

Lists analysis templates within a collaboration.

## Request Syntax

```
GET /collaborations/collaborationIdentifier/analysistemplates?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

A unique identifier for the collaboration that the analysis templates belong to. Currently accepts collaboration ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### maxResults

The maximum size of the results that is returned per call.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```



```
Content-type: application/json

{
  "collaborationAnalysisTemplateSummaries": [
    {
      "arn": "string",
      "collaborationArn": "string",
      "collaborationId": "string",
      "createTime": number,
      "creatorAccountId": "string",
      "description": "string",
      "id": "string",
      "name": "string",
      "updateTime": number
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [collaborationAnalysisTemplateSummaries](#)

The metadata of the analysis template within a collaboration.

Type: Array of [CollaborationAnalysisTemplateSummary](#) objects

### [nextToken](#)

The token value retrieved from a previous call to access the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

## **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

## **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

## **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

## **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

## **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListCollaborationConfiguredAudienceModelAssociations

Lists configured audience model associations within a collaboration.

## Request Syntax

```
GET /collaborations/collaborationIdentifier/configuredaudiencemodelassociations?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

A unique identifier for the collaboration that the configured audience model association belongs to. Accepts a collaboration ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### maxResults

The maximum size of the results that is returned per call.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "collaborationConfiguredAudienceModelAssociationSummaries": [
    {
      "arn": "string",
      "collaborationArn": "string",
      "collaborationId": "string",
      "createTime": number,
      "creatorAccountId": "string",
      "description": "string",
      "id": "string",
      "name": "string",
      "updateTime": number
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [collaborationConfiguredAudienceModelAssociationSummaries](#)

The metadata of the configured audience model association within a collaboration.

Type: Array of [CollaborationConfiguredAudienceModelAssociationSummary](#) objects

### [nextToken](#)

The token value retrieved from a previous call to access the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

## **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

## **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

## **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

## **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

## **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListCollaborationPrivacyBudgets

Returns an array that summarizes each privacy budget in a specified collaboration. The summary includes the collaboration ARN, creation time, creating account, and privacy budget details.

## Request Syntax

```
GET /collaborations/collaborationIdentifier/privacybudgets?  
maxResults=maxResults&nextToken=nextToken&privacyBudgetType=privacyBudgetType HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

A unique identifier for one of your collaborations.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### maxResults

The maximum size of the results that is returned per call. Service chooses a default if it has not been set. Service may return a `nextToken` even if the maximum results has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

### privacyBudgetType

Specifies the type of the privacy budget.

Valid Values: DIFFERENTIAL\_PRIVACY

Required: Yes



## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "collaborationPrivacyBudgetSummaries": [
    {
      "budget": { ... },
      "collaborationArn": "string",
      "collaborationId": "string",
      "createTime": number,
      "creatorAccountId": "string",
      "id": "string",
      "privacyBudgetTemplateArn": "string",
      "privacyBudgetTemplateId": "string",
      "type": "string",
      "updateTime": number
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [collaborationPrivacyBudgetSummaries](#)

Summaries of the collaboration privacy budgets.

Type: Array of [CollaborationPrivacyBudgetSummary](#) objects

### [nextToken](#)

The token value retrieved from a previous call to access the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)

- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListCollaborationPrivacyBudgetTemplates

Returns an array that summarizes each privacy budget template in a specified collaboration.

## Request Syntax

```
GET /collaborations/collaborationIdentifier/privacybudgettemplates?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

A unique identifier for one of your collaborations.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### maxResults

The maximum size of the results that is returned per call. Service chooses a default if it has not been set. Service may return a `nextToken` even if the maximum results has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "collaborationPrivacyBudgetTemplateSummaries": [
    {
      "arn": "string",
      "collaborationArn": "string",
      "collaborationId": "string",
      "createTime": number,
      "creatorAccountId": "string",
      "id": "string",
      "privacyBudgetType": "string",
      "updateTime": number
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [collaborationPrivacyBudgetTemplateSummaries](#)

An array that summarizes the collaboration privacy budget templates. The summary includes collaboration information, creation information, the privacy budget type.

Type: Array of [CollaborationPrivacyBudgetTemplateSummary](#) objects

### [nextToken](#)

The token value retrieved from a previous call to access the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

## **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

## **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

## **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

## **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

## **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListCollaborations

Lists collaborations the caller owns, is active in, or has been invited to.

## Request Syntax

```
GET /collaborations?maxResults=maxResults&memberStatus=memberStatus&nextToken=nextToken  
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum size of the results that is returned per call. Service chooses a default if it has not been set. Service may return a nextToken even if the maximum results has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

### memberStatus

The caller's status in a collaboration.

Valid Values: INVITED | ACTIVE

### nextToken

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200  
Content-type: application/json
```



```
{
  "collaborationList": [
    {
      "arn": "string",
      "createTime": number,
      "creatorAccountId": "string",
      "creatorDisplayName": "string",
      "id": "string",
      "membershipArn": "string",
      "membershipId": "string",
      "memberStatus": "string",
      "name": "string",
      "updateTime": number
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### collaborationList

The list of collaborations.

Type: Array of [CollaborationSummary](#) objects

### nextToken

The token value retrieved from a previous call to access the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

## AccessDeniedException

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

## InternalServerError

Unexpected error during processing of request.

HTTP Status Code: 500

## ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListConfiguredAudienceModelAssociations

Lists information about requested configured audience model associations.

## Request Syntax

```
GET /memberships/membershipIdentifier/configuredaudiencemodelassociations?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum size of the results that is returned per call. Service chooses a default if it has not been set. Service may return a `nextToken` even if the maximum results has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

### membershipIdentifier

A unique identifier for a membership that contains the configured audience model associations that you want to retrieve.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### nextToken

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "configuredAudienceModelAssociationSummaries": [
    {
      "arn": "string",
      "collaborationArn": "string",
      "collaborationId": "string",
      "configuredAudienceModelArn": "string",
      "createTime": number,
      "description": "string",
      "id": "string",
      "membershipArn": "string",
      "membershipId": "string",
      "name": "string",
      "updateTime": number
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [configuredAudienceModelAssociationSummaries](#)

Summaries of the configured audience model associations that you requested.

Type: Array of [ConfiguredAudienceModelAssociationSummary](#) objects

### [nextToken](#)

The token value provided to access the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListConfiguredTableAssociations

Lists configured table associations for a membership.

## Request Syntax

```
GET /memberships/membershipIdentifier/configuredTableAssociations?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [maxResults](#)

The maximum size of the results that is returned per call.

Valid Range: Minimum value of 1. Maximum value of 100.

### [membershipIdentifier](#)

A unique identifier for the membership to list configured table associations for. Currently accepts the membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### [nextToken](#)

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "configuredTableAssociationSummaries": [
    {
      "arn": "string",
      "configuredTableId": "string",
      "createTime": number,
      "id": "string",
      "membershipArn": "string",
      "membershipId": "string",
      "name": "string",
      "updateTime": number
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [configuredTableAssociationSummaries](#)

The retrieved list of configured table associations.

Type: Array of [ConfiguredTableAssociationSummary](#) objects

### [nextToken](#)

The token value retrieved from a previous call to access the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).



## **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

## **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

## **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

## **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

## **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListConfiguredTables

Lists configured tables.

## Request Syntax

```
GET /configuredTables?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [maxResults](#)

The maximum size of the results that is returned per call.

Valid Range: Minimum value of 1. Maximum value of 100.

### [nextToken](#)

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "configuredTableSummaries": [
    {
      "analysisMethod": "string",
      "analysisRuleTypes": [ "string" ],
      "arn": "string",
      "createTime": number,
    }
  ]
}
```

```
    "id": "string",
    "name": "string",
    "updateTime": number
  }
],
"nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### configuredTableSummaries

The configured tables listed by the request.

Type: Array of [ConfiguredTableSummary](#) objects

### nextToken

The token value retrieved from a previous call to access the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

## ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListMembers

Lists all members within a collaboration.

## Request Syntax

```
GET /collaborations/collaborationIdentifier/members?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

The identifier of the collaboration in which the members are listed.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### maxResults

The maximum size of the results that is returned per call.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

Content-type: application/json

```
{
  "memberSummaries": [
    {
      "abilities": [ "string" ],
      "accountId": "string",
      "createTime": number,
      "displayName": "string",
      "membershipArn": "string",
      "membershipId": "string",
      "paymentConfiguration": {
        "queryCompute": {
          "isResponsible": boolean
        }
      },
      "status": "string",
      "updateTime": number
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### memberSummaries

The list of members returned by the ListMembers operation.

Type: Array of [MemberSummary](#) objects

### nextToken

The token value retrieved from a previous call to access the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)



- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListMemberships

Lists all memberships resources within the caller's account.

## Request Syntax

```
GET /memberships?maxResults=maxResults&nextToken=nextToken&status=status HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum size of the results that is returned per call.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

### status

A filter which will return only memberships in the specified status.

Valid Values: ACTIVE | REMOVED | COLLABORATION\_DELETED

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "membershipSummaries": [
    {
      "arn": "string",
```

```
    "collaborationArn": "string",
    "collaborationCreatorAccountId": "string",
    "collaborationCreatorDisplayName": "string",
    "collaborationId": "string",
    "collaborationName": "string",
    "createTime": number,
    "id": "string",
    "memberAbilities": [ "string" ],
    "paymentConfiguration": {
      "queryCompute": {
        "isResponsible": boolean
      }
    },
    "status": "string",
    "updateTime": number
  }
],
"nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### membershipSummaries

The list of memberships returned from the ListMemberships operation.

Type: Array of [MembershipSummary](#) objects

### nextToken

The token value retrieved from a previous call to access the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

## AccessDeniedException

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

## InternalServerError

Unexpected error during processing of request.

HTTP Status Code: 500

## ThrottlingException

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListPrivacyBudgets

Returns detailed information about the privacy budgets in a specified membership.

## Request Syntax

```
GET /memberships/membershipIdentifier/privacybudgets?  
maxResults=maxResults&nextToken=nextToken&privacyBudgetType=privacyBudgetType HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum size of the results that is returned per call. Service chooses a default if it has not been set. Service may return a nextToken even if the maximum results has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

### membershipIdentifier

A unique identifier for one of your memberships for a collaboration. The privacy budget is retrieved from the collaboration that this membership belongs to. Accepts a membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### nextToken

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

### privacyBudgetType

The privacy budget type.

Valid Values: DIFFERENTIAL\_PRIVACY

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "privacyBudgetSummaries": [
    {
      "budget": { ... },
      "collaborationArn": "string",
      "collaborationId": "string",
      "createTime": number,
      "id": "string",
      "membershipArn": "string",
      "membershipId": "string",
      "privacyBudgetTemplateArn": "string",
      "privacyBudgetTemplateId": "string",
      "type": "string",
      "updateTime": number
    }
  ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### nextToken

The token value retrieved from a previous call to access the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

### privacyBudgetSummaries

An array that summarizes the privacy budgets. The summary includes collaboration information, membership information, privacy budget template information, and privacy budget details.

Type: Array of [PrivacyBudgetSummary](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# ListPrivacyBudgetTemplates

Returns detailed information about the privacy budget templates in a specified membership.

## Request Syntax

```
GET /memberships/membershipIdentifier/privacybudgettemplates?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum size of the results that is returned per call. Service chooses a default if it has not been set. Service may return a nextToken even if the maximum results has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

### membershipIdentifier

A unique identifier for one of your memberships for a collaboration. The privacy budget templates are retrieved from the collaboration that this membership belongs to. Accepts a membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### nextToken

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "privacyBudgetTemplateSummaries": [
    {
      "arn": "string",
      "collaborationArn": "string",
      "collaborationId": "string",
      "createTime": number,
      "id": "string",
      "membershipArn": "string",
      "membershipId": "string",
      "privacyBudgetType": "string",
      "updateTime": number
    }
  ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### nextToken

The token value retrieved from a previous call to access the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

### privacyBudgetTemplateSummaries

An array that summarizes the privacy budget templates. The summary includes collaboration information, creation information, and privacy budget type.

Type: Array of [PrivacyBudgetTemplateSummary](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListProtectedQueries

Lists protected queries, sorted by the most recent query.

## Request Syntax

```
GET /memberships/membershipIdentifier/protectedQueries?  
maxResults=maxResults&nextToken=nextToken&status=status HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [maxResults](#)

The maximum size of the results that is returned per call. Service chooses a default if it has not been set. Service can return a nextToken even if the maximum results has not been met.

Valid Range: Minimum value of 1. Maximum value of 100.

### [membershipIdentifier](#)

The identifier for the membership in the collaboration.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### [nextToken](#)

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

### [status](#)

A filter on the status of the protected query.

Valid Values: SUBMITTED | STARTED | CANCELLED | CANCELLING | FAILED | SUCCESS | TIMED\_OUT

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "protectedQueries": [
    {
      "createTime": number,
      "id": "string",
      "membershipArn": "string",
      "membershipId": "string",
      "status": "string"
    }
  ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### nextToken

The token value retrieved from a previous call to access the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

### protectedQueries

A list of protected queries.

Type: Array of [ProtectedQuerySummary](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# ListSchemas

Lists the schemas for relations within a collaboration.

## Request Syntax

```
GET /collaborations/collaborationIdentifier/schemas?  
maxResults=maxResults&nextToken=nextToken&schemaType=schemaType HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

A unique identifier for the collaboration that the schema belongs to. Currently accepts a collaboration ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### maxResults

The maximum size of the results that is returned per call.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 0. Maximum length of 10240.

### schemaType

If present, filter schemas by schema type. The only valid schema type is currently ``TABLE``.

Valid Values: TABLE

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "schemaSummaries": [
    {
      "analysisMethod": "string",
      "analysisRuleTypes": [ "string" ],
      "collaborationArn": "string",
      "collaborationId": "string",
      "createTime": number,
      "creatorAccountId": "string",
      "name": "string",
      "type": "string",
      "updateTime": number
    }
  ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### nextToken

The token value retrieved from a previous call to access the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

### schemaSummaries

The retrieved list of schemas.

Type: Array of [SchemaSummary](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListTagsForResource

Lists all of the tags that have been added to a resource.

## Request Syntax

```
GET /tags/resourceArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceArn

The Amazon Resource Name (ARN) associated with the resource you want to list tags on.

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:[\d\w/-]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "tags": {
    "string" : "string"
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### tags

A map of objects specifying each key name and value.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# PreviewPrivacyImpact

An estimate of the number of aggregation functions that the member who can query can run given epsilon and noise parameters.

## Request Syntax

```
POST /memberships/membershipIdentifier/previewprivacyimpact HTTP/1.1
Content-type: application/json

{
  "parameters": { ... }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

A unique identifier for one of your memberships for a collaboration. Accepts a membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### parameters

Specifies the desired epsilon and noise parameters to preview.

Type: [PreviewPrivacyImpactParametersInput](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes



## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "privacyImpact": { ... }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [privacyImpact](#)

An estimate of the number of aggregation functions that the member who can query can run given the epsilon and noise parameters. This does not change the privacy budget.

Type: [PrivacyImpact](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# StartProtectedQuery

Creates a protected query that is started by AWS Clean Rooms.

## Request Syntax

```
POST /memberships/membershipIdentifier/protectedQueries HTTP/1.1
Content-type: application/json
```

```
{
  "resultConfiguration": {
    "outputConfiguration": { ... }
  },
  "sqlParameters": {
    "analysisTemplateArn": "string",
    "parameters": {
      "string": "string"
    },
    "queryString": "string"
  },
  "type": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

A unique identifier for the membership to run this query against. Currently accepts a membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

## resultConfiguration

The details needed to write the query results.

Type: [ProtectedQueryResultConfiguration](#) object

Required: No

## sqlParameters

The protected SQL query parameters.

Type: [ProtectedQuerySQLParameters](#) object

Required: Yes

## type

The type of the protected query to be started.

Type: String

Valid Values: SQL

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "protectedQuery": {
    "createTime": number,
    "differentialPrivacy": {
      "sensitivityParameters": [
        {
          "aggregationExpression": "string",
          "aggregationType": "string",
          "maxColumnValue": number,
          "minColumnValue": number,
          "userContributionLimit": number
        }
      ]
    }
  },

```

```
"error": {
  "code": "string",
  "message": "string"
},
"id": "string",
"membershipArn": "string",
"membershipId": "string",
"result": {
  "output": { ... }
},
"resultConfiguration": {
  "outputConfiguration": { ... }
},
"sqlParameters": {
  "analysisTemplateArn": "string",
  "parameters": {
    "string" : "string"
  },
  "queryString": "string"
},
"statistics": {
  "totalDurationInMillis": number
},
"status": "string"
}
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### protectedQuery

The protected query.

Type: [ProtectedQuery](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

## **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

## **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

## **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

## **ServiceQuotaExceededException**

Request denied because service quota has been exceeded.

HTTP Status Code: 402

## **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

## **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# TagResource

Tags a resource.

## Request Syntax

```
POST /tags/resourceArn HTTP/1.1  
Content-type: application/json
```

```
{  
  "tags": {  
    "string" : "string"  
  }  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceArn

The Amazon Resource Name (ARN) associated with the resource you want to tag.

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:[\d\w/-]+`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### tags

A map of objects specifying each key name and value.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.



Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: Yes

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### ResourceNotFoundException

Request references a resource which does not exist.

HTTP Status Code: 404

### ValidationException

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UntagResource

Removes a tag or list of tags from a resource.

## Request Syntax

```
DELETE /tags/resourceArn?tagKeys=tagKeys HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceArn

The Amazon Resource Name (ARN) associated with the resource you want to remove the tag from.

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:[\d\w/-]+`

Required: Yes

### tagKeys

A list of key names of tags to be removed.

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### ResourceNotFoundException

Request references a resource which does not exist.

HTTP Status Code: 404

### ValidationException

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateAnalysisTemplate

Updates the analysis template metadata.

## Request Syntax

```
PATCH /memberships/membershipIdentifier/analysis/templates/analysisTemplateIdentifier
HTTP/1.1
Content-type: application/json

{
  "description": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### analysisTemplateIdentifier

The identifier for the analysis template resource.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### membershipIdentifier

The identifier for a membership resource.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

## description

A new description for the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "analysisTemplate": {
    "analysisParameters": [
      {
        "defaultValue": "string",
        "name": "string",
        "type": "string"
      }
    ],
    "arn": "string",
    "collaborationArn": "string",
    "collaborationId": "string",
    "createTime": number,
    "description": "string",
    "format": "string",
    "id": "string",
    "membershipArn": "string",
    "membershipId": "string",
    "name": "string",
    "schema": {
      "referencedTables": [ "string" ]
    },
    "source": { ... },
    "updateTime": number,
    "validations": [
      {
```

```
    "reasons": [  
      {  
        "message": "string"  
      }  
    ],  
    "status": "string",  
    "type": "string"  
  }  
]  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### analysisTemplate

The analysis template.

Type: [AnalysisTemplate](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# UpdateCollaboration

Updates collaboration metadata and can only be called by the collaboration owner.

## Request Syntax

```
PATCH /collaborations/collaborationIdentifier HTTP/1.1
Content-type: application/json

{
  "description": "string",
  "name": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

The identifier for the collaboration.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### description

A description of the collaboration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t\\r\\n]*`

Required: No

### name

A human-readable identifier provided by the collaboration owner. Display names are not unique.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: No

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json
```

```
{
  "collaboration": {
    "arn": "string",
    "createTime": number,
    "creatorAccountId": "string",
    "creatorDisplayName": "string",
    "dataEncryptionMetadata": {
      "allowCleartext": boolean,
      "allowDuplicates": boolean,
      "allowJoinsOnColumnsWithDifferentNames": boolean,
      "preserveNulls": boolean
    },
    "description": "string",
    "id": "string",
    "membershipArn": "string",
    "membershipId": "string",
    "memberStatus": "string",
    "name": "string",
    "queryLogStatus": "string",
    "updateTime": number
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### collaboration

The entire collaboration that has been updated.

Type: [Collaboration](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateConfiguredAudienceModelAssociation

Provides the details necessary to update a configured audience model association.

## Request Syntax

```
PATCH /memberships/membershipIdentifier/
configuredaudiencemodelassociations/configuredAudienceModelAssociationIdentifier
HTTP/1.1
Content-type: application/json

{
  "description": "string",
  "name": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### configuredAudienceModelAssociationIdentifier

A unique identifier for the configured audience model association that you want to update.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### membershipIdentifier

A unique identifier of the membership that contains the configured audience model association that you want to update.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### description

A new description for the configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

### name

A new name for the configured audience model association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\\s*$)[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: No

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json
```

```
{
  "configuredAudienceModelAssociation": {
    "arn": "string",
    "collaborationArn": "string",
    "collaborationId": "string",
    "configuredAudienceModelArn": "string",
    "createTime": number,
    "description": "string",
    "id": "string",
    "manageResourcePolicies": boolean,
```

```
"membershipArn": "string",  
"membershipId": "string",  
"name": "string",  
"updateTime": number  
}  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [configuredAudienceModelAssociation](#)

Details about the configured audience model association that you updated.

Type: [ConfiguredAudienceModelAssociation](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# UpdateConfiguredTable

Updates a configured table.

## Request Syntax

```
PATCH /configuredTables/configuredTableIdentifier HTTP/1.1
Content-type: application/json
```

```
{
  "description": "string",
  "name": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### configuredTableIdentifier

The identifier for the configured table to update. Currently accepts the configured table ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### description

A new description for the configured table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

### name

A new name for the configured table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: (?!\s\*\$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]\*

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "configuredTable": {
    "allowedColumns": [ "string" ],
    "analysisMethod": "string",
    "analysisRuleTypes": [ "string" ],
    "arn": "string",
    "createTime": number,
    "description": "string",
    "id": "string",
    "name": "string",
    "tableReference": { ... },
    "updateTime": number
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### configuredTable

The updated configured table.

Type: [ConfiguredTable](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateConfiguredTableAnalysisRule

Updates a configured table analysis rule.

## Request Syntax

```
PATCH /configuredTables/configuredTableIdentifier/analysisRule/analysisRuleType
HTTP/1.1
Content-type: application/json

{
  "analysisRulePolicy": { ... }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### [analysisRuleType](#)

The analysis rule type to be updated. Configured table analysis rules are uniquely identified by their configured table identifier and analysis rule type.

Valid Values: AGGREGATION | LIST | CUSTOM

Required: Yes

### [configuredTableIdentifier](#)

The unique identifier for the configured table that the analysis rule applies to. Currently accepts the configured table ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

## [analysisRulePolicy](#)

The new analysis rule policy for the configured table analysis rule.

Type: [ConfiguredTableAnalysisRulePolicy](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "analysisRule": {
    "configuredTableArn": "string",
    "configuredTableId": "string",
    "createTime": number,
    "policy": { ... },
    "type": "string",
    "updateTime": number
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [analysisRule](#)

The entire updated analysis rule.

Type: [ConfiguredTableAnalysisRule](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

## **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

## **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

## **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

## **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

## **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

## **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# UpdateConfiguredTableAssociation

Updates a configured table association.

## Request Syntax

```
PATCH /memberships/membershipIdentifier/  
configuredTableAssociations/configuredTableAssociationIdentifier HTTP/1.1  
Content-type: application/json
```

```
{  
  "description": "string",  
  "roleArn": "string"  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### configuredTableAssociationIdentifier

The unique identifier for the configured table association to update. Currently accepts the configured table association ID.

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

### membershipIdentifier

The unique ID for the membership that the configured table association belongs to.

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

## Request Body

The request accepts the following data in JSON format.

## description

A new description for the configured table association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\u007F\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

## roleArn

The service will assume this role to access catalog metadata and query the table.

Type: String

Length Constraints: Minimum length of 32. Maximum length of 512.

Pattern: `arn:aws:iam::[\w]+:role/[\w+=./@-]+`

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "configuredTableAssociation": {
    "arn": "string",
    "configuredTableArn": "string",
    "configuredTableId": "string",
    "createTime": number,
    "description": "string",
    "id": "string",
    "membershipArn": "string",
    "membershipId": "string",
    "name": "string",
    "roleArn": "string",
    "updateTime": number
  }
}
```

```
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [configuredTableAssociation](#)

The entire updated configured table association.

Type: [ConfiguredTableAssociation](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateMembership

Updates a membership.

## Request Syntax

```
PATCH /memberships/membershipIdentifier HTTP/1.1
Content-type: application/json
```

```
{
  "defaultResultConfiguration": {
    "outputConfiguration": { ... },
    "roleArn": "string"
  },
  "queryLogStatus": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

The unique identifier of the membership.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### defaultResultConfiguration

The default protected query result configuration as specified by the member who can receive results.

Type: [MembershipProtectedQueryResultConfiguration](#) object

Required: No

### queryLogStatus

An indicator as to whether query logging has been enabled or disabled for the membership.

Type: String

Valid Values: ENABLED | DISABLED

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "membership": {
    "arn": "string",
    "collaborationArn": "string",
    "collaborationCreatorAccountId": "string",
    "collaborationCreatorDisplayName": "string",
    "collaborationId": "string",
    "collaborationName": "string",
    "createTime": number,
    "defaultResultConfiguration": {
      "outputConfiguration": { ... },
      "roleArn": "string"
    },
    "id": "string",
    "memberAbilities": [ "string" ],
    "paymentConfiguration": {
      "queryCompute": {
        "isResponsible": boolean
      }
    },
    "queryLogStatus": "string",
    "status": "string",
    "updateTime": number
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### membership

The membership object.

Type: [Membership](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# UpdatePrivacyBudgetTemplate

Updates the privacy budget template for the specified membership.

## Request Syntax

```
PATCH /memberships/membershipIdentifier/
privacybudgettemplates/privacyBudgetTemplateIdentifier HTTP/1.1
Content-type: application/json
```

```
{
  "parameters": { ... },
  "privacyBudgetType": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

A unique identifier for one of your memberships for a collaboration. The privacy budget template is updated in the collaboration that this membership belongs to. Accepts a membership ID.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### privacyBudgetTemplateIdentifier

A unique identifier for your privacy budget template that you want to update.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### parameters

Specifies the epsilon and noise parameters for the privacy budget template.

Type: [PrivacyBudgetTemplateUpdateParameters](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

### privacyBudgetType

Specifies the type of the privacy budget template.

Type: String

Valid Values: DIFFERENTIAL\_PRIVACY

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "privacyBudgetTemplate": {
    "arn": "string",
    "autoRefresh": "string",
    "collaborationArn": "string",
    "collaborationId": "string",
    "createTime": number,
    "id": "string",
    "membershipArn": "string",
    "membershipId": "string",
    "parameters": { ... },
    "privacyBudgetType": "string",
    "updateTime": number
  }
}
```

```
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [privacyBudgetTemplate](#)

Summary of the privacy budget template.

Type: [PrivacyBudgetTemplate](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### **InternalServerErrorException**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateProtectedQuery

Updates the processing of a currently running query.

## Request Syntax

```
PATCH /memberships/membershipIdentifier/protectedQueries/protectedQueryIdentifier
HTTP/1.1
Content-type: application/json

{
  "targetStatus": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

The identifier for a member of a protected query instance.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### protectedQueryIdentifier

The identifier for a protected query instance.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

## targetStatus

The target status of a query. Used to update the execution status of a currently running query.

Type: String

Valid Values: CANCELLED

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "protectedQuery": {
    "createTime": number,
    "differentialPrivacy": {
      "sensitivityParameters": [
        {
          "aggregationExpression": "string",
          "aggregationType": "string",
          "maxColumnValue": number,
          "minColumnValue": number,
          "userContributionLimit": number
        }
      ]
    },
    "error": {
      "code": "string",
      "message": "string"
    },
    "id": "string",
    "membershipArn": "string",
    "membershipId": "string",
    "result": {
      "output": { ... }
    },
    "resultConfiguration": {
      "outputConfiguration": { ... }
    },
    "sqlParameters": {
```

```
    "analysisTemplateArn": "string",
    "parameters": {
      "string" : "string"
    },
    "queryString": "string"
  },
  "statistics": {
    "totalDurationInMillis": number
  },
  "status": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### protectedQuery

The protected query output.

Type: [ProtectedQuery](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#).

### **AccessDeniedException**

Caller does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### **InternalServerError**

Unexpected error during processing of request.

HTTP Status Code: 500

### **ResourceNotFoundException**

Request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

Request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the specified constraints.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# Data Types

The AWS Clean Rooms Service API contains several data types that various actions use. This section describes each data type in detail.

## Note

The order of each element in a data type structure is not guaranteed. Applications should not assume a particular order.

The following data types are supported:

- [AggregateColumn](#)
- [AggregationConstraint](#)
- [AnalysisParameter](#)
- [AnalysisRule](#)
- [AnalysisRuleAggregation](#)
- [AnalysisRuleCustom](#)
- [AnalysisRuleList](#)
- [AnalysisRulePolicy](#)
- [AnalysisRulePolicyV1](#)
- [AnalysisSchema](#)
- [AnalysisSource](#)
- [AnalysisTemplate](#)
- [AnalysisTemplateSummary](#)
- [AnalysisTemplateValidationStatusDetail](#)
- [AnalysisTemplateValidationStatusReason](#)
- [BatchGetCollaborationAnalysisTemplateError](#)
- [BatchGetSchemaAnalysisRuleError](#)
- [BatchGetSchemaError](#)
- [Collaboration](#)
- [CollaborationAnalysisTemplate](#)

- [CollaborationAnalysisTemplateSummary](#)
- [CollaborationConfiguredAudienceModelAssociation](#)
- [CollaborationConfiguredAudienceModelAssociationSummary](#)
- [CollaborationPrivacyBudgetSummary](#)
- [CollaborationPrivacyBudgetTemplate](#)
- [CollaborationPrivacyBudgetTemplateSummary](#)
- [CollaborationSummary](#)
- [Column](#)
- [ConfiguredAudienceModelAssociation](#)
- [ConfiguredAudienceModelAssociationSummary](#)
- [ConfiguredTable](#)
- [ConfiguredTableAnalysisRule](#)
- [ConfiguredTableAnalysisRulePolicy](#)
- [ConfiguredTableAnalysisRulePolicyV1](#)
- [ConfiguredTableAssociation](#)
- [ConfiguredTableAssociationSummary](#)
- [ConfiguredTableSummary](#)
- [DataEncryptionMetadata](#)
- [DifferentialPrivacyColumn](#)
- [DifferentialPrivacyConfiguration](#)
- [DifferentialPrivacyParameters](#)
- [DifferentialPrivacyPreviewAggregation](#)
- [DifferentialPrivacyPreviewParametersInput](#)
- [DifferentialPrivacyPrivacyBudget](#)
- [DifferentialPrivacyPrivacyBudgetAggregation](#)
- [DifferentialPrivacyPrivacyImpact](#)
- [DifferentialPrivacySensitivityParameters](#)
- [DifferentialPrivacyTemplateParametersInput](#)
- [DifferentialPrivacyTemplateParametersOutput](#)
- [DifferentialPrivacyTemplateUpdateParameters](#)

- [GlueTableReference](#)
- [Membership](#)
- [MembershipPaymentConfiguration](#)
- [MembershipProtectedQueryOutputConfiguration](#)
- [MembershipProtectedQueryResultConfiguration](#)
- [MembershipQueryComputePaymentConfig](#)
- [MembershipSummary](#)
- [MemberSpecification](#)
- [MemberSummary](#)
- [PaymentConfiguration](#)
- [PreviewPrivacyImpactParametersInput](#)
- [PrivacyBudget](#)
- [PrivacyBudgetSummary](#)
- [PrivacyBudgetTemplate](#)
- [PrivacyBudgetTemplateParametersInput](#)
- [PrivacyBudgetTemplateParametersOutput](#)
- [PrivacyBudgetTemplateSummary](#)
- [PrivacyBudgetTemplateUpdateParameters](#)
- [PrivacyImpact](#)
- [ProtectedQuery](#)
- [ProtectedQueryError](#)
- [ProtectedQueryOutput](#)
- [ProtectedQueryOutputConfiguration](#)
- [ProtectedQueryResult](#)
- [ProtectedQueryResultConfiguration](#)
- [ProtectedQueryS3Output](#)
- [ProtectedQueryS3OutputConfiguration](#)
- [ProtectedQuerySingleMemberOutput](#)
- [ProtectedQuerySQLParameters](#)
- [ProtectedQueryStatistics](#)

- [ProtectedQuerySummary](#)
- [QueryComputePaymentConfig](#)
- [Schema](#)
- [SchemaAnalysisRuleRequest](#)
- [SchemaStatusDetail](#)
- [SchemaStatusReason](#)
- [SchemaSummary](#)
- [TableReference](#)
- [ValidationExceptionField](#)

# AggregateColumn

Column in configured table that can be used in aggregate function in query.

## Contents

### columnNames

Column names in configured table of aggregate columns.

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_]{1,127}([a-z0-9_]{1,127})*`

Required: Yes

### function

Aggregation function that can be applied to aggregate column in query.

Type: String

Valid Values: SUM | SUM\_DISTINCT | COUNT | COUNT\_DISTINCT | AVG

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AggregationConstraint

Constraint on query output removing output rows that do not meet a minimum number of distinct values of a specified column.

## Contents

### columnName

Column in aggregation constraint for which there must be a minimum number of distinct values in an output row for it to be in the query output.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_]{1,127}([a-z0-9_]{1,127}){0,1}`

Required: Yes

### minimum

The minimum number of distinct values that an output row must be an aggregation of. Minimum threshold of distinct values for a specified column that must exist in an output row for it to be in the query output.

Type: Integer

Valid Range: Minimum value of 2. Maximum value of 100000.

Required: Yes

### type

The type of aggregation the constraint allows. The only valid value is currently `'COUNT_DISTINCT'`.

Type: String

Valid Values: COUNT\_DISTINCT

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AnalysisParameter

Optional. The member who can query can provide this placeholder for a literal data value in an analysis template.

## Contents

### name

The name of the parameter. The name must use only alphanumeric, underscore (`_`), or hyphen (`-`) characters but cannot start or end with a hyphen.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[0-9a-zA-Z_]+`

Required: Yes

### type

The type of parameter.

Type: String

Valid Values: `SMALLINT` | `INTEGER` | `BIGINT` | `DECIMAL` | `REAL` | `DOUBLE_PRECISION` | `BOOLEAN` | `CHAR` | `VARCHAR` | `DATE` | `TIMESTAMP` | `TIMESTAMPTZ` | `TIME` | `TIMETZ` | `VARBYTE`

Required: Yes

### defaultValue

Optional. The default value that is applied in the analysis template. The member who can query can override this value in the query editor.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 250.

Required: No



## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AnalysisRule

A specification about how data from the configured table can be used in a query.

## Contents

### collaborationId

The unique ID for the associated collaboration.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### createTime

The time the analysis rule was created.

Type: Timestamp

Required: Yes

### name

The name for the analysis rule.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_ ]+ )*( [a-zA-Z0-9_ ]+ ) )?`

Required: Yes

### policy

A policy that describes the associated data usage limitations.

Type: [AnalysisRulePolicy](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

### **type**

The type of analysis rule.

Type: String

Valid Values: AGGREGATION | LIST | CUSTOM

Required: Yes

### **updateTime**

The time the analysis rule was last updated.

Type: Timestamp

Required: Yes

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AnalysisRuleAggregation

A type of analysis rule that enables query structure and specified queries that produce aggregate statistics.

## Contents

### aggregateColumns

The columns that query runners are allowed to use in aggregation queries.

Type: Array of [AggregateColumn](#) objects

Array Members: Minimum number of 1 item.

Required: Yes

### dimensionColumns

The columns that query runners are allowed to select, group by, or filter by.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_]( ([a-z0-9_ ]+- )*( [a-z0-9_ ]+ ) )?`

Required: Yes

### joinColumns

Columns in configured table that can be used in join statements and/or as aggregate columns. They can never be outputted directly.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_]( ([a-z0-9_ ]+- )*( [a-z0-9_ ]+ ) )?`

Required: Yes

### outputConstraints

Columns that must meet a specific threshold value (after an aggregation function is applied to it) for each output row to be returned.

Type: Array of [AggregationConstraint](#) objects

Array Members: Minimum number of 1 item.

Required: Yes

### **scalarFunctions**

Set of scalar functions that are allowed to be used on dimension columns and the output of aggregation of metrics.

Type: Array of strings

Valid Values: ABS | CAST | CEILING | COALESCE | CONVERT | CURRENT\_DATE | DATEADD | EXTRACT | FLOOR | GETDATE | LN | LOG | LOWER | ROUND | RTRIM | SQRT | SUBSTRING | TO\_CHAR | TO\_DATE | TO\_NUMBER | TO\_TIMESTAMP | TRIM | TRUNC | UPPER

Required: Yes

### **allowedJoinOperators**

Which logical operators (if any) are to be used in an INNER JOIN match condition. Default is AND.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 2 items.

Valid Values: OR | AND

Required: No

### **joinRequired**

Control that requires member who runs query to do a join with their configured table and/or other configured table in query.

Type: String

Valid Values: QUERY\_RUNNER

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AnalysisRuleCustom

A type of analysis rule that enables the table owner to approve custom SQL queries on their configured tables. It supports differential privacy.

## Contents

### allowedAnalyses

The ARN of the analysis templates that are allowed by the custom analysis rule.

Type: Array of strings

Array Members: Minimum number of 0 items.

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: (ANY\_QUERY|arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/analysistemplate/[\d\w-]+)

Required: Yes

### allowedAnalysisProviders

The IDs of the AWS accounts that are allowed to query by the custom analysis rule. Required when `allowedAnalyses` is `ANY_QUERY`.

Type: Array of strings

Array Members: Minimum number of 0 items.

Length Constraints: Fixed length of 12.

Pattern: \d+

Required: No

### differentialPrivacy

The differential privacy configuration.

Type: [DifferentialPrivacyConfiguration](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# AnalysisRuleList

A type of analysis rule that enables row-level analysis.

## Contents

### joinColumns

Columns that can be used to join a configured table with the table of the member who can query and other members' configured tables.

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_]{1,127}([a-z0-9_]{1,127})*`

Required: Yes

### listColumns

Columns that can be listed in the output.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-z0-9_]{1,127}([a-z0-9_]{1,127})*`

Required: Yes

### allowedJoinOperators

The logical operators (if any) that are to be used in an INNER JOIN match condition. Default is AND.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 2 items.

Valid Values: OR | AND

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AnalysisRulePolicy

Controls on the query specifications that can be run on configured table.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### v1

Controls on the query specifications that can be run on configured table.

Type: [AnalysisRulePolicyV1](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AnalysisRulePolicyV1

Controls on the query specifications that can be run on configured table.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### aggregation

Analysis rule type that enables only aggregation queries on a configured table.

Type: [AnalysisRuleAggregation](#) object

Required: No

### custom

Analysis rule type that enables custom SQL queries on a configured table.

Type: [AnalysisRuleCustom](#) object

Required: No

### list

Analysis rule type that enables only list queries on a configured table.

Type: [AnalysisRuleList](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AnalysisSchema

A relation within an analysis.

## Contents

### referencedTables

The tables referenced in the analysis schema.

Type: Array of strings

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_ ]+ - )*( [a-zA-Z0-9_ ]+ ))?`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AnalysisSource

The structure that defines the body of the analysis template.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### text

The query text.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 90000.

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AnalysisTemplate

The analysis template.

## Contents

### arn

The Amazon Resource Name (ARN) of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/analysistemplate/[\d\w-]+`

Required: Yes

### collaborationArn

The unique ARN for the analysis template's associated collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### collaborationId

The unique ID for the associated collaboration of the analysis template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes



**createTime**

The time that the analysis template was created.

Type: Timestamp

Required: Yes

**format**

The format of the analysis template.

Type: String

Valid Values: SQL

Required: Yes

**id**

The identifier for the analysis template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**membershipArn**

The Amazon Resource Name (ARN) of the member who created the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

**membershipId**

The identifier of a member who created the analysis template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **name**

The name of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_ ]+ - ) * ( [a-zA-Z0-9_ ]+ ) ) ?`

Required: Yes

### **schema**

The entire schema object.

Type: [AnalysisSchema](#) object

Required: Yes

### **source**

The source of the analysis template.

Type: [AnalysisSource](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

### **updateTime**

The time that the analysis template was last updated.

Type: Timestamp

Required: Yes

### **analysisParameters**

The parameters of the analysis template.

Type: Array of [AnalysisParameter](#) objects

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Required: No

### description

The description of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

### validations

Information about the validations performed on the analysis template.

Type: Array of [AnalysisTemplateValidationStatusDetail](#) objects

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AnalysisTemplateSummary

The metadata of the analysis template.

## Contents

### arn

The Amazon Resource Name (ARN) of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/analysis-template/[\d\w-]+`

Required: Yes

### collaborationArn

The unique ARN for the analysis template summary's associated collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### collaborationId

A unique identifier for the collaboration that the analysis template summary belongs to. Currently accepts collaboration ID.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**createTime**

The time that the analysis template summary was created.

Type: Timestamp

Required: Yes

**id**

The identifier of the analysis template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**membershipArn**

The Amazon Resource Name (ARN) of the member who created the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

**membershipId**

The identifier for a membership resource.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**name**

The name of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_ ]+ - )*( [a-zA-Z0-9_ ]+ ))?`

Required: Yes

### **updateTime**

The time that the analysis template summary was last updated.

Type: Timestamp

Required: Yes

### **description**

The description of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AnalysisTemplateValidationStatusDetail

The status details of the analysis template validation. AWS Clean Rooms Differential Privacy uses a general-purpose query structure to support complex SQL queries and validates whether an analysis template fits that general-purpose query structure. Validation is performed when analysis templates are created and fetched. Because analysis templates are immutable by design, we recommend that you create analysis templates after you associate the configured tables with their analysis rule to your collaboration.

For more information, see <https://docs.aws.amazon.com/clean-rooms/latest/userguide/analysis-rules-custom.html#custom-diff-privacy>.

## Contents

### status

The status of the validation.

Type: String

Valid Values: VALID | INVALID | UNABLE\_TO\_VALIDATE

Required: Yes

### type

The type of validation that was performed.

Type: String

Valid Values: DIFFERENTIAL\_PRIVACY

Required: Yes

### reasons

The reasons for the validation results.

Type: Array of [AnalysisTemplateValidationStatusReason](#) objects

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# AnalysisTemplateValidationStatusReason

The reasons for the validation results.

## Contents

### message

The validation message.

Type: String

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# BatchGetCollaborationAnalysisTemplateError

Details of errors thrown by the call to retrieve multiple analysis templates within a collaboration by their identifiers.

## Contents

### arn

The Amazon Resource Name (ARN) of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/analysis-template/[\d\w-]+`

Required: Yes

### code

An error code for the error.

Type: String

Required: Yes

### message

A description of why the call failed.

Type: String

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# BatchGetSchemaAnalysisRuleError

An error that describes why a schema could not be fetched.

## Contents

### code

An error code for the error.

Type: String

Required: Yes

### message

A description of why the call failed.

Type: String

Required: Yes

### name

An error name for the error.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_ ]+ )*( [a-zA-Z0-9_ ]+ ))?`

Required: Yes

### type

The analysis rule type.

Type: String

Valid Values: AGGREGATION | LIST | CUSTOM

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# BatchGetSchemaError

An error describing why a schema could not be fetched.

## Contents

### code

An error code for the error.

Type: String

Required: Yes

### message

An error message for the error.

Type: String

Required: Yes

### name

An error name for the error.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_ ]+ )*( [a-zA-Z0-9_ ]+ ) )?`

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# Collaboration

The multi-party data share environment. The collaboration contains metadata about its purpose and participants.

## Contents

### arn

The unique ARN for the collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### createTime

The time when the collaboration was created.

Type: Timestamp

Required: Yes

### creatorAccountId

The identifier used to reference members of the collaboration. Currently only supports AWS account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

### creatorDisplayName

A display name of the collaboration creator.



Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

## **id**

The unique ID for the collaboration.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## **memberStatus**

The status of a member in a collaboration.

Type: String

Valid Values: INVITED | ACTIVE | LEFT | REMOVED

Required: Yes

## **name**

A human-readable identifier provided by the collaboration owner. Display names are not unique.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

## **queryLogStatus**

An indicator as to whether query logging has been enabled or disabled for the collaboration.

Type: String

Valid Values: ENABLED | DISABLED

Required: Yes

### **updateTime**

The time the collaboration metadata was last updated.

Type: Timestamp

Required: Yes

### **dataEncryptionMetadata**

The settings for client-side encryption for cryptographic computing.

Type: [DataEncryptionMetadata](#) object

Required: No

### **description**

A description of the collaboration provided by the collaboration owner.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t\\r\\n]*`

Required: No

### **membershipArn**

The unique ARN for your membership within the collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\\w]+:[\\w]{2}-[\\w]{4,9}-[\\d]:[\\d]{12}:membership/[\\d\\w-]+`

Required: No

## membershipId

The unique ID for your membership within the collaboration.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CollaborationAnalysisTemplate

The analysis template within a collaboration.

## Contents

### arn

The Amazon Resource Name (ARN) of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/analysis-template/[\d\w-]+`

Required: Yes

### collaborationArn

The unique ARN for the analysis template's associated collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### collaborationId

A unique identifier for the collaboration that the analysis templates belong to. Currently accepts collaboration ID.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**createTime**

The time that the analysis template within a collaboration was created.

Type: Timestamp

Required: Yes

**creatorAccountId**

The identifier used to reference members of the collaboration. Currently only supports AWS account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

**format**

The format of the analysis template in the collaboration.

Type: String

Valid Values: SQL

Required: Yes

**id**

The identifier of the analysis template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**name**

The name of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_ ]+ - )*( [a-zA-Z0-9_ ]+ ))?`

Required: Yes

### schema

The entire schema object.

Type: [AnalysisSchema](#) object

Required: Yes

### source

The source of the analysis template within a collaboration.

Type: [AnalysisSource](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

### updateTime

The time that the analysis template in the collaboration was last updated.

Type: Timestamp

Required: Yes

### analysisParameters

The analysis parameters that have been specified in the analysis template.

Type: Array of [AnalysisParameter](#) objects

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Required: No

### description

The description of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

### **validations**

The validations that were performed.

Type: Array of [AnalysisTemplateValidationStatusDetail](#) objects

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CollaborationAnalysisTemplateSummary

The metadata of the analysis template within a collaboration.

## Contents

### arn

The Amazon Resource Name (ARN) of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/analysis-template/[\d\w-]+`

Required: Yes

### collaborationArn

The unique ARN for the analysis template's associated collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### collaborationId

A unique identifier for the collaboration that the analysis templates belong to. Currently accepts collaboration ID.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes



**createTime**

The time that the summary of the analysis template in a collaboration was created.

Type: Timestamp

Required: Yes

**creatorAccountId**

The identifier used to reference members of the collaboration. Currently only supports AWS account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

**id**

The identifier of the analysis template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**name**

The name of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_ ]+ )*( [a-zA-Z0-9_ ]+ ) )?`

Required: Yes

## updateTime

The time that the summary of the analysis template in the collaboration was last updated.

Type: Timestamp

Required: Yes

## description

The description of the analysis template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CollaborationConfiguredAudienceModelAssociation

The configured audience model association within a collaboration.

## Contents

### arn

The Amazon Resource Name (ARN) of the configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/configuredaudiencemodelassociation/[\d\w-]+`

Required: Yes

### collaborationArn

The unique ARN for the configured audience model's associated collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### collaborationId

A unique identifier for the collaboration that the configured audience model associations belong to. Accepts collaboration ID.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**configuredAudienceModelArn**

The Amazon Resource Name (ARN) of the configure audience model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-m1:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[-a-zA-Z0-9_/.]+`

Required: Yes

**createTime**

The time at which the configured audience model association was created.

Type: Timestamp

Required: Yes

**creatorAccountId**

The identifier used to reference members of the collaboration. Only supports AWS account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

**id**

The identifier of the configured audience model association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**name**

The name of the configured audience model association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

**updateTime**

The most recent time at which the configured audience model association was updated.

Type: Timestamp

Required: Yes

**description**

The description of the configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t\\r\\n]*`

Required: No

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CollaborationConfiguredAudienceModelAssociationSummary

A summary of the configured audience model association in the collaboration.

## Contents

### arn

The Amazon Resource Name (ARN) of the configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/configuredaudiencemodelassociation/[\d\w-]+`

Required: Yes

### collaborationArn

The unique ARN for the configured audience model's associated collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### collaborationId

A unique identifier for the collaboration that the configured audience model associations belong to. Accepts collaboration ID.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**createTime**

The time at which the configured audience model association was created.

Type: Timestamp

Required: Yes

**creatorAccountId**

The identifier used to reference members of the collaboration. Only supports AWS account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

**id**

The identifier of the configured audience model association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**name**

The name of the configured audience model association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

**updateTime**

The most recent time at which the configured audience model association was updated.

Type: Timestamp

Required: Yes

### **description**

The description of the configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# CollaborationPrivacyBudgetSummary

A summary of the collaboration privacy budgets. This summary includes the collaboration information, creation information, epsilon provided, and utility in terms of aggregations.

## Contents

### budget

The includes epsilon provided and utility in terms of aggregations.

Type: [PrivacyBudget](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

### collaborationArn

The ARN of the collaboration that includes this privacy budget.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### collaborationId

The unique identifier of the collaboration that includes this privacy budget.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### createTime

The time at which the privacy budget was created.

Type: Timestamp

Required: Yes

### **creatorAccountId**

The unique identifier of the account that created this privacy budget.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

### **id**

The unique identifier of the collaboration privacy budget.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **privacyBudgetTemplateArn**

The ARN of the collaboration privacy budget template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:privacybudgettemplate/[\d\w-]+`

Required: Yes

### **privacyBudgetTemplateId**

The unique identifier of the collaboration privacy budget template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## **type**

The type of privacy budget template.

Type: String

Valid Values: DIFFERENTIAL\_PRIVACY

Required: Yes

## **updateTime**

The most recent time at which the privacy budget was updated.

Type: Timestamp

Required: Yes

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CollaborationPrivacyBudgetTemplate

An array that specifies the information for a collaboration's privacy budget template.

## Contents

### arn

The ARN of the collaboration privacy budget template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:privacybudgettemplate/[\d\w-]+`

Required: Yes

### autoRefresh

How often the privacy budget refreshes.

#### Important

If you plan to regularly bring new data into the collaboration, use `CALENDAR_MONTH` to automatically get a new privacy budget for the collaboration every calendar month. Choosing this option allows arbitrary amounts of information to be revealed about rows of the data when repeatedly queried across refreshes. Avoid choosing this if the same rows will be repeatedly queried between privacy budget refreshes.

Type: String

Valid Values: `CALENDAR_MONTH` | `NONE`

Required: Yes

### collaborationArn

The ARN of the collaboration that includes this collaboration privacy budget template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### **collaborationId**

The unique identifier of the collaboration that includes this collaboration privacy budget template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **createTime**

The time at which the collaboration privacy budget template was created.

Type: Timestamp

Required: Yes

### **creatorAccountId**

The unique identifier of the account that created this collaboration privacy budget template.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

### **id**

The unique identifier of the collaboration privacy budget template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### parameters

Specifies the epsilon and noise parameters for the privacy budget template.

Type: [PrivacyBudgetTemplateParametersOutput](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

### privacyBudgetType

The type of privacy budget template.

Type: String

Valid Values: DIFFERENTIAL\_PRIVACY

Required: Yes

### updateTime

The most recent time at which the collaboration privacy budget template was updated.

Type: Timestamp

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CollaborationPrivacyBudgetTemplateSummary

A summary of the collaboration's privacy budget template. This summary includes information about who created the privacy budget template and what collaborations it belongs to.

## Contents

### arn

The ARN of the collaboration privacy budget template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:privacybudgettemplate/[\d\w-]+`

Required: Yes

### collaborationArn

The ARN of the collaboration that contains this collaboration privacy budget template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### collaborationId

The unique identifier of the collaboration that contains this collaboration privacy budget template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **createTime**

The time at which the collaboration privacy budget template was created.

Type: Timestamp

Required: Yes

### **creatorAccountId**

The unique identifier of the account that created this collaboration privacy budget template.

Type: String

Length Constraints: Fixed length of 12.

Pattern: \d+

Required: Yes

### **id**

The unique identifier of the collaboration privacy budget template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

### **privacyBudgetType**

The type of the privacy budget template.

Type: String

Valid Values: DIFFERENTIAL\_PRIVACY

Required: Yes

### **updateTime**

The most recent time at which the collaboration privacy budget template was updated.



Type: Timestamp

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CollaborationSummary

The metadata of the collaboration.

## Contents

### arn

The ARN of the collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### createTime

The time when the collaboration was created.

Type: Timestamp

Required: Yes

### creatorAccountId

The identifier used to reference members of the collaboration. Currently only supports AWS account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

### creatorDisplayName

The display name of the collaboration creator.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

## **id**

The identifier for the collaboration.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## **memberStatus**

The status of a member in a collaboration.

Type: String

Valid Values: INVITED | ACTIVE | LEFT | REMOVED

Required: Yes

## **name**

A human-readable identifier provided by the collaboration owner. Display names are not unique.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

## **updateTime**

The time the collaboration metadata was last updated.

Type: Timestamp

Required: Yes

### **membershipArn**

The ARN of a member in a collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: No

### **membershipId**

The identifier of a member in a collaboration.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Column

A column within a schema relation, derived from the underlying AWS Glue table.

## Contents

### name

The name of the column.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-z0-9_]( ([a-z0-9_ ]+- )*( [a-z0-9_ ]+ ) )?`

Required: Yes

### type

The type of the column.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ConfiguredAudienceModelAssociation

Details about the configured audience model association.

## Contents

### arn

The Amazon Resource Name (ARN) of the configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/configuredaudiencemodelassociation/[\d\w-]+`

Required: Yes

### collaborationArn

The Amazon Resource Name (ARN) of the collaboration that contains this configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### collaborationId

A unique identifier of the collaboration that contains this configured audience model association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **configuredAudienceModelArn**

The Amazon Resource Name (ARN) of the configured audience model that was used for this configured audience model association.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-m1:[-a-z0-9]+:[0-9]{12}:configured-audience-model[/[-a-zA-Z0-9_/.]+`

Required: Yes

### **createTime**

The time at which the configured audience model association was created.

Type: Timestamp

Required: Yes

### **id**

A unique identifier of the configured audience model association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **manageResourcePolicies**

When TRUE, indicates that the resource policy for the configured audience model resource being associated is configured for AWS Clean Rooms to manage permissions related to the given collaboration. When FALSE, indicates that the configured audience model resource owner will manage permissions related to the given collaboration.

Type: Boolean

Required: Yes

## membershipArn

The Amazon Resource Name (ARN) of the membership that contains this configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

## membershipId

A unique identifier for the membership that contains this configured audience model association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## name

The name of the configured audience model association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\\s*$)[\u0020-\u007F\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

## updateTime

The most recent time at which the configured audience model association was updated.

Type: Timestamp

Required: Yes



## description

The description of the configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ConfiguredAudienceModelAssociationSummary

A summary of the configured audience model association.

## Contents

### arn

The Amazon Resource Name (ARN) of the configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/configuredaudiencemodelassociation/[\d\w-]+`

Required: Yes

### collaborationArn

The Amazon Resource Name (ARN) of the collaboration that contains the configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### collaborationId

A unique identifier of the collaboration that configured audience model is associated with.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## **configuredAudienceModelArn**

The Amazon Resource Name (ARN) of the configured audience model that was used for this configured audience model association.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-m1:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[-a-zA-Z0-9_/.]+`

Required: Yes

## **createTime**

The time at which the configured audience model association was created.

Type: Timestamp

Required: Yes

## **id**

A unique identifier of the configured audience model association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## **membershipArn**

The Amazon Resource Name (ARN) of the membership that contains the configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

### **membershipId**

A unique identifier of the membership that contains the configured audience model association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **name**

The name of the configured audience model association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

### **updateTime**

The most recent time at which the configured audience model association was updated.

Type: Timestamp

Required: Yes

### **description**

The description of the configured audience model association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t\\r\\n]*`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ConfiguredTable

A table that has been configured for use in a collaboration.

## Contents

### allowedColumns

The columns within the underlying AWS Glue table that can be utilized within collaborations.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 225 items.

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-z0-9_]{0,128}([a-z0-9_]{1,127})*`

Required: Yes

### analysisMethod

The analysis method for the configured table. The only valid value is currently `DIRECT_QUERY``.

Type: String

Valid Values: `DIRECT_QUERY`

Required: Yes

### analysisRuleTypes

The types of analysis rules associated with this configured table. Currently, only one analysis rule may be associated with a configured table.

Type: Array of strings

Valid Values: `AGGREGATION | LIST | CUSTOM`

Required: Yes

### arn

The unique ARN for the configured table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:configuredtable/[\d\w-]+`

Required: Yes

### **createTime**

The time the configured table was created.

Type: Timestamp

Required: Yes

### **id**

The unique ID for the configured table.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **name**

A name for the configured table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\\s*$)[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

### **tableReference**

The AWS Glue table that this configured table represents.

Type: [TableReference](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

### **updateTime**

The time the configured table was last updated

Type: Timestamp

Required: Yes

### **description**

A description for the configured table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# ConfiguredTableAnalysisRule

A configured table analysis rule, which limits how data for this table can be used.

## Contents

### **configuredTableArn**

The unique ARN for the configured table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:configuredtable/[\d\w-]+`

Required: Yes

### **configuredTableId**

The unique ID for the configured table.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **createTime**

The time the configured table analysis rule was created.

Type: Timestamp

Required: Yes

### **policy**

The policy that controls SQL query rules.

Type: [ConfiguredTableAnalysisRulePolicy](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

### **type**

The type of configured table analysis rule.

Type: String

Valid Values: AGGREGATION | LIST | CUSTOM

Required: Yes

### **updateTime**

The time the configured table analysis rule was last updated.

Type: Timestamp

Required: Yes

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ConfiguredTableAnalysisRulePolicy

Controls on the query specifications that can be run on a configured table.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### v1

Controls on the query specifications that can be run on a configured table.

Type: [ConfiguredTableAnalysisRulePolicyV1](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ConfiguredTableAnalysisRulePolicyV1

Controls on the query specifications that can be run on a configured table.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### aggregation

Analysis rule type that enables only aggregation queries on a configured table.

Type: [AnalysisRuleAggregation](#) object

Required: No

### custom

A type of analysis rule that enables the table owner to approve custom SQL queries on their configured tables. It supports differential privacy.

Type: [AnalysisRuleCustom](#) object

Required: No

### list

Analysis rule type that enables only list queries on a configured table.

Type: [AnalysisRuleList](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ConfiguredTableAssociation

A configured table association links a configured table to a collaboration.

## Contents

### arn

The unique ARN for the configured table association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:configuredtableassociation/[\d\w-]+/[\d\w-]+`

Required: Yes

### configuredTableArn

The unique ARN for the configured table that the association refers to.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:configuredtable/[\d\w-]+`

Required: Yes

### configuredTableId

The unique ID for the configured table that the association refers to.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**createTime**

The time the configured table association was created.

Type: Timestamp

Required: Yes

**id**

The unique ID for the configured table association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**membershipArn**

The unique ARN for the membership this configured table association belongs to.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

**membershipId**

The unique ID for the membership this configured table association belongs to.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**name**

The name of the configured table association, in lowercase. The table is identified by this name when running protected queries against the underlying data.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_ ]+ - )*( [a-zA-Z0-9_ ]+ ))?`

Required: Yes

### **roleArn**

The service will assume this role to access catalog metadata and query the table.

Type: String

Length Constraints: Minimum length of 32. Maximum length of 512.

Pattern: `arn:aws:iam::[\w]+:role/[\w+=./@-]+`

Required: Yes

### **updateTime**

The time the configured table association was last updated.

Type: Timestamp

Required: Yes

### **description**

A description of the configured table association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:



- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ConfiguredTableAssociationSummary

The configured table association summary for the objects listed by the request.

## Contents

### arn

The unique ARN for the configured table association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:configuredtableassociation/[\d\w-]+/[\d\w-]+`

Required: Yes

### configuredTableId

The unique configured table ID that this configured table association refers to.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### createTime

The time the configured table association was created.

Type: Timestamp

Required: Yes

### id

The unique ID for the configured table association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **membershipArn**

The unique ARN for the membership that the configured table association belongs to.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

### **membershipId**

The unique ID for the membership that the configured table association belongs to.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **name**

The name of the configured table association. The table is identified by this name when running Protected Queries against the underlying data.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_ ]+ )*( [a-zA-Z0-9_ ]+ ) )?`

Required: Yes

### **updateTime**

The time the configured table association was last updated.

Type: Timestamp

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ConfiguredTableSummary

The configured table summary for the objects listed by the request.

## Contents

### analysisMethod

The analysis method for the configured tables. The only valid value is currently ``DIRECT_QUERY``.

Type: String

Valid Values: DIRECT\_QUERY

Required: Yes

### analysisRuleTypes

The types of analysis rules associated with this configured table.

Type: Array of strings

Valid Values: AGGREGATION | LIST | CUSTOM

Required: Yes

### arn

The unique ARN of the configured table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:configuredtable/[\d\w-]+`

Required: Yes

### createTime

The time the configured table was created.

Type: Timestamp

Required: Yes

## **id**

The unique ID of the configured table.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## **name**

The name of the configured table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

## **updateTime**

The time the configured table was last updated.

Type: Timestamp

Required: Yes

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DataEncryptionMetadata

The settings for client-side encryption for cryptographic computing.

## Contents

### **allowCleartext**

Indicates whether encrypted tables can contain cleartext data (TRUE) or are to cryptographically process every column (FALSE).

Type: Boolean

Required: Yes

### **allowDuplicates**

Indicates whether Fingerprint columns can contain duplicate entries (TRUE) or are to contain only non-repeated values (FALSE).

Type: Boolean

Required: Yes

### **allowJoinsOnColumnsWithDifferentNames**

Indicates whether Fingerprint columns can be joined on any other Fingerprint column with a different name (TRUE) or can only be joined on Fingerprint columns of the same name (FALSE).

Type: Boolean

Required: Yes

### **preserveNulls**

Indicates whether NULL values are to be copied as NULL to encrypted tables (TRUE) or cryptographically processed (FALSE).

Type: Boolean

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# DifferentialPrivacyColumn

Specifies the name of the column that contains the unique identifier of your users, whose privacy you want to protect.

## Contents

### name

The name of the column, such as `user_id`, that contains the unique identifier of your users, whose privacy you want to protect. If you want to turn on differential privacy for two or more tables in a collaboration, you must configure the same column as the user identifier column in both analysis rules.

Type: String

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DifferentialPrivacyConfiguration

Specifies the unique identifier for your users.

## Contents

### columns

The name of the column (such as `user_id`) that contains the unique identifier of your users whose privacy you want to protect. If you want to turn on differential privacy for two or more tables in a collaboration, you must configure the same column as the user identifier column in both analysis rules.

Type: Array of [DifferentialPrivacyColumn](#) objects

Array Members: Fixed number of 1 item.

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DifferentialPrivacyParameters

An array that contains the sensitivity parameters.

## Contents

### sensitivityParameters

Provides the sensitivity parameters that you can use to better understand the total amount of noise in query results.

Type: Array of [DifferentialPrivacySensitivityParameters](#) objects

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DifferentialPrivacyPreviewAggregation

Provides an estimate of the number of aggregation functions that the member who can query can run given the epsilon and noise parameters.

## Contents

### maxCount

The maximum number of aggregations that the member who can query can run given the epsilon and noise parameters.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

### type

The type of aggregation function.

Type: String

Valid Values: AVG | COUNT | COUNT\_DISTINCT | SUM | STDDEV

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DifferentialPrivacyPreviewParametersInput

The epsilon and noise parameters that you want to preview.

## Contents

### epsilon

The epsilon value that you want to preview.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 20.

Required: Yes

### usersNoisePerQuery

Noise added per query is measured in terms of the number of users whose contributions you want to obscure. This value governs the rate at which the privacy budget is depleted.

Type: Integer

Valid Range: Minimum value of 10. Maximum value of 100.

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DifferentialPrivacyPrivacyBudget

Specifies the configured epsilon value and the utility in terms of total aggregations, as well as the remaining aggregations available.

## Contents

### aggregations

This information includes the configured epsilon value and the utility in terms of total aggregations, as well as the remaining aggregations.

Type: Array of [DifferentialPrivacyPrivacyBudgetAggregation](#) objects

Required: Yes

### epsilon

The epsilon value that you configured.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 20.

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DifferentialPrivacyPrivacyBudgetAggregation

Information about the total number of aggregations, as well as the remaining aggregations.

## Contents

### maxCount

The maximum number of aggregation functions that you can perform with the given privacy budget.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

### remainingCount

The remaining number of aggregation functions that can be run with the available privacy budget.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

### type

The different types of aggregation functions that you can perform.

Type: String

Valid Values: AVG | COUNT | COUNT\_DISTINCT | SUM | STDDEV

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# DifferentialPrivacyPrivacyImpact

Information about the number of aggregation functions that the member who can query can run given the epsilon and noise parameters.

## Contents

### aggregations

The number of aggregation functions that you can perform.

Type: Array of [DifferentialPrivacyPreviewAggregation](#) objects

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DifferentialPrivacySensitivityParameters

Provides the sensitivity parameters.

## Contents

### **aggregationExpression**

The aggregation expression that was run.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

### **aggregationType**

The type of aggregation function that was run.

Type: String

Valid Values: AVG | COUNT | COUNT\_DISTINCT | SUM | STDDEV

Required: Yes

### **userContributionLimit**

The maximum number of rows contributed by a user in a SQL query.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

### **maxColumnValue**

The upper bound of the aggregation expression.

Type: Float

Required: No

### **minColumnValue**

The lower bound of the aggregation expression.

Type: Float

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DifferentialPrivacyTemplateParametersInput

The epsilon and noise parameter values that you want to use for the differential privacy template.

## Contents

### epsilon

The epsilon value that you want to use.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 20.

Required: Yes

### usersNoisePerQuery

Noise added per query is measured in terms of the number of users whose contributions you want to obscure. This value governs the rate at which the privacy budget is depleted.

Type: Integer

Valid Range: Minimum value of 10. Maximum value of 100.

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DifferentialPrivacyTemplateParametersOutput

The epsilon and noise parameter values that were used for the differential privacy template.

## Contents

### epsilon

The epsilon value that you specified.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 20.

Required: Yes

### usersNoisePerQuery

Noise added per query is measured in terms of the number of users whose contributions you want to obscure. This value governs the rate at which the privacy budget is depleted.

Type: Integer

Valid Range: Minimum value of 10. Maximum value of 100.

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DifferentialPrivacyTemplateUpdateParameters

The epsilon and noise parameter values that you want to update in the differential privacy template.

## Contents

### epsilon

The updated epsilon value that you want to use.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 20.

Required: No

### usersNoisePerQuery

The updated value of noise added per query. It is measured in terms of the number of users whose contributions you want to obscure. This value governs the rate at which the privacy budget is depleted.

Type: Integer

Valid Range: Minimum value of 10. Maximum value of 100.

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# GlueTableReference

A reference to a table within an AWS Glue data catalog.

## Contents

### databaseName

The name of the database the AWS Glue table belongs to.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_]+-)* ([a-zA-Z0-9_]+) )?`

Required: Yes

### tableName

The name of the AWS Glue table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_ ]+ -)* ([a-zA-Z0-9_ ]+) )?`

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Membership

The membership object.

## Contents

### **arn**

The unique ARN for the membership.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

### **collaborationArn**

The unique ARN for the membership's associated collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### **collaborationCreatorAccountId**

The identifier used to reference members of the collaboration. Currently only supports AWS account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes



**collaborationCreatorDisplayName**

The display name of the collaboration creator.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

**collaborationId**

The unique ID for the membership's collaboration.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**collaborationName**

The name of the membership's collaboration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

**createTime**

The time when the membership was created.

Type: Timestamp

Required: Yes

**id**

The unique ID of the membership.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **memberAbilities**

The abilities granted to the collaboration member.

Type: Array of strings

Valid Values: CAN\_QUERY | CAN\_RECEIVE\_RESULTS

Required: Yes

### **paymentConfiguration**

The payment responsibilities accepted by the collaboration member.

Type: [MembershipPaymentConfiguration](#) object

Required: Yes

### **queryLogStatus**

An indicator as to whether query logging has been enabled or disabled for the membership.

Type: String

Valid Values: ENABLED | DISABLED

Required: Yes

### **status**

The status of the membership.

Type: String

Valid Values: ACTIVE | REMOVED | COLLABORATION\_DELETED

Required: Yes

## **updateTime**

The time the membership metadata was last updated.

Type: Timestamp

Required: Yes

## **defaultResultConfiguration**

The default protected query result configuration as specified by the member who can receive results.

Type: [MembershipProtectedQueryResultConfiguration](#) object

Required: No

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# MembershipPaymentConfiguration

An object representing the payment responsibilities accepted by the collaboration member.

## Contents

### queryCompute

The payment responsibilities accepted by the collaboration member for query compute costs.

Type: [MembershipQueryComputePaymentConfig](#) object

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# MembershipProtectedQueryOutputConfiguration

Contains configurations for protected query results.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### s3

Contains the configuration to write the query results to S3.

Type: [ProtectedQueryS3OutputConfiguration](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# MembershipProtectedQueryResultConfiguration

Contains configurations for protected query results.

## Contents

### outputConfiguration

Configuration for protected query results.

Type: [MembershipProtectedQueryOutputConfiguration](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

### roleArn

The unique ARN for an IAM role that is used by AWS Clean Rooms to write protected query results to the result location, given by the member who can receive results.

Type: String

Length Constraints: Minimum length of 32. Maximum length of 512.

Pattern: `arn:aws:iam:[\w]+:role/[\w+=./@-]+`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# MembershipQueryComputePaymentConfig

An object representing the payment responsibilities accepted by the collaboration member for query compute costs.

## Contents

### isResponsible

Indicates whether the collaboration member has accepted to pay for query compute costs (TRUE) or has not accepted to pay for query compute costs (FALSE).

If the collaboration creator has not specified anyone to pay for query compute costs, then the member who can query is the default payer.

An error message is returned for the following reasons:

- If you set the value to FALSE but you are responsible to pay for query compute costs.
- If you set the value to TRUE but you are not responsible to pay for query compute costs.

Type: Boolean

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# MembershipSummary

The membership object listed by the request.

## Contents

### **arn**

The unique ARN for the membership.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

### **collaborationArn**

The unique ARN for the membership's associated collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### **collaborationCreatorAccountId**

The identifier of the AWS principal that created the collaboration. Currently only supports AWS account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes



**collaborationCreatorDisplayName**

The display name of the collaboration creator.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: (?!\s\*\$)[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t]\*

Required: Yes

**collaborationId**

The unique ID for the membership's collaboration.

Type: String

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

**collaborationName**

The name for the membership's collaboration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: (?!\s\*\$)[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t]\*

Required: Yes

**createTime**

The time when the membership was created.

Type: Timestamp

Required: Yes

**id**

The unique ID for the membership's collaboration.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **memberAbilities**

The abilities granted to the collaboration member.

Type: Array of strings

Valid Values: CAN\_QUERY | CAN\_RECEIVE\_RESULTS

Required: Yes

### **paymentConfiguration**

The payment responsibilities accepted by the collaboration member.

Type: [MembershipPaymentConfiguration](#) object

Required: Yes

### **status**

The status of the membership.

Type: String

Valid Values: ACTIVE | REMOVED | COLLABORATION\_DELETED

Required: Yes

### **updateTime**

The time the membership metadata was last updated.

Type: Timestamp

Required: Yes

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# MemberSpecification

Basic metadata used to construct a new member.

## Contents

### **accountId**

The identifier used to reference members of the collaboration. Currently only supports AWS account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

### **displayName**

The member's display name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

### **memberAbilities**

The abilities granted to the collaboration member.

Type: Array of strings

Valid Values: `CAN_QUERY` | `CAN_RECEIVE_RESULTS`

Required: Yes

### **paymentConfiguration**

The collaboration member's payment responsibilities set by the collaboration creator.

If the collaboration creator hasn't specified anyone as the member paying for query compute costs, then the member who can query is the default payer.

Type: [PaymentConfiguration](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# MemberSummary

The member object listed by the request.

## Contents

### abilities

The abilities granted to the collaboration member.

Type: Array of strings

Valid Values: CAN\_QUERY | CAN\_RECEIVE\_RESULTS

Required: Yes

### accountId

The identifier used to reference members of the collaboration. Currently only supports AWS account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: \d+

Required: Yes

### createTime

The time when the member was created.

Type: Timestamp

Required: Yes

### displayName

The member's display name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

### **paymentConfiguration**

The collaboration member's payment responsibilities set by the collaboration creator.

Type: [PaymentConfiguration](#) object

Required: Yes

### **status**

The status of the member.

Type: String

Valid Values: INVITED | ACTIVE | LEFT | REMOVED

Required: Yes

### **updateTime**

The time the member metadata was last updated.

Type: Timestamp

Required: Yes

### **membershipArn**

The unique ARN for the member's associated membership, if present.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\\w]+:[\\w]{2}-[\\w]{4,9}-[\\d]:[\\d]{12}:membership/[\\d\\w-]+`

Required: No

### **membershipId**

The unique ID for the member's associated membership, if present.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# PaymentConfiguration

An object representing the collaboration member's payment responsibilities set by the collaboration creator.

## Contents

### queryCompute

The collaboration member's payment responsibilities set by the collaboration creator for query compute costs.

Type: [QueryComputePaymentConfig](#) object

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# PreviewPrivacyImpactParametersInput

Specifies the updated epsilon and noise parameters to preview. The preview allows you to see how the maximum number of each type of aggregation function would change with the new parameters.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### **differentialPrivacy**

An array that specifies the epsilon and noise parameters.

Type: [DifferentialPrivacyPreviewParametersInput](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# PrivacyBudget

The epsilon parameter value and number of each aggregation function that you can perform.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

## differentialPrivacy

An object that specifies the epsilon parameter and the utility in terms of total aggregations, as well as the remaining aggregations available.

Type: [DifferentialPrivacyPrivacyBudget](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# PrivacyBudgetSummary

An array that summarizes the specified privacy budget. This summary includes collaboration information, creation information, membership information, and privacy budget information.

## Contents

### budget

The provided privacy budget.

Type: [PrivacyBudget](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

### collaborationArn

The ARN of the collaboration that contains this privacy budget.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### collaborationId

The unique identifier of the collaboration that contains this privacy budget.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### createTime

The time at which the privacy budget was created.

Type: Timestamp

Required: Yes

## **id**

The unique identifier of the privacy budget.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## **membershipArn**

The Amazon Resource Name (ARN) of the member who created the privacy budget summary.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

## **membershipId**

The identifier for a membership resource.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## **privacyBudgetTemplateArn**

The ARN of the privacy budget template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:privacybudgettemplate/[\d\w-]+`

Required: Yes

### **privacyBudgetTemplateId**

The unique identifier of the privacy budget template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **type**

Specifies the type of the privacy budget.

Type: String

Valid Values: DIFFERENTIAL\_PRIVACY

Required: Yes

### **updateTime**

The most recent time at which the privacy budget was updated.

Type: Timestamp

Required: Yes

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# PrivacyBudgetTemplate

An object that defines the privacy budget template.

## Contents

### arn

The ARN of the privacy budget template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:privacybudgettemplate/[\d\w-]+`

Required: Yes

### autoRefresh

How often the privacy budget refreshes.

#### Important

If you plan to regularly bring new data into the collaboration, use `CALENDAR_MONTH` to automatically get a new privacy budget for the collaboration every calendar month. Choosing this option allows arbitrary amounts of information to be revealed about rows of the data when repeatedly queried across refreshes. Avoid choosing this if the same rows will be repeatedly queried between privacy budget refreshes.

Type: String

Valid Values: `CALENDAR_MONTH` | `NONE`

Required: Yes

### collaborationArn

The ARN of the collaboration that contains this privacy budget template.



Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### **collaborationId**

The unique ID of the collaboration that contains this privacy budget template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **createTime**

The time at which the privacy budget template was created.

Type: Timestamp

Required: Yes

### **id**

The unique identifier of the privacy budget template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **membershipArn**

The Amazon Resource Name (ARN) of the member who created the privacy budget template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

### **membershipId**

The identifier for a membership resource.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **parameters**

Specifies the epsilon and noise parameters for the privacy budget template.

Type: [PrivacyBudgetTemplateParametersOutput](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

### **privacyBudgetType**

Specifies the type of the privacy budget template.

Type: String

Valid Values: DIFFERENTIAL\_PRIVACY

Required: Yes

### **updateTime**

The most recent time at which the privacy budget template was updated.

Type: Timestamp

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# PrivacyBudgetTemplateParametersInput

The epsilon and noise parameters that you want to use for the privacy budget template.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

## differentialPrivacy

An object that specifies the epsilon and noise parameters.

Type: [DifferentialPrivacyTemplateParametersInput](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# PrivacyBudgetTemplateParametersOutput

The epsilon and noise parameters that were used in the privacy budget template.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### differentialPrivacy

The epsilon and noise parameters.

Type: [DifferentialPrivacyTemplateParametersOutput](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# PrivacyBudgetTemplateSummary

A summary of the privacy budget template. The summary includes membership information, collaboration information, and creation information.

## Contents

### arn

The ARN of the privacy budget template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:privacybudgettemplate/[\d\w-]+`

Required: Yes

### collaborationArn

The ARN of the collaboration that contains this privacy budget template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### collaborationId

The unique ID of the collaboration that contains this privacy budget template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**createTime**

The time at which the privacy budget template was created.

Type: Timestamp

Required: Yes

**id**

The unique identifier of the privacy budget template.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**membershipArn**

The Amazon Resource Name (ARN) of the member who created the privacy budget template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

**membershipId**

The identifier for a membership resource.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

**privacyBudgetType**

The type of the privacy budget template.

Type: String

Valid Values: DIFFERENTIAL\_PRIVACY

Required: Yes

### **updateTime**

The most recent time at which the privacy budget template was updated.

Type: Timestamp

Required: Yes

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# PrivacyBudgetTemplateUpdateParameters

The epsilon and noise parameters that you want to update in the privacy budget template.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

## differentialPrivacy

An object that specifies the new values for the epsilon and noise parameters.

Type: [DifferentialPrivacyTemplateUpdateParameters](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# PrivacyImpact

Provides an estimate of the number of aggregation functions that the member who can query can run given the epsilon and noise parameters.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

## differentialPrivacy

An object that lists the number and type of aggregation functions you can perform.

Type: [DifferentialPrivacyPrivacyImpact](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedQuery

The parameters for an AWS Clean Rooms protected query.

## Contents

### **createTime**

The time at which the protected query was created.

Type: Timestamp

Required: Yes

### **id**

The identifier for a protected query instance.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **membershipArn**

The ARN of the membership.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

### **membershipId**

The identifier for the membership.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **status**

The status of the query.

Type: String

Valid Values: SUBMITTED | STARTED | CANCELLED | CANCELLING | FAILED | SUCCESS | TIMED\_OUT

Required: Yes

### **differentialPrivacy**

The sensitivity parameters of the differential privacy results of the protected query.

Type: [DifferentialPrivacyParameters](#) object

Required: No

### **error**

An error thrown by the protected query.

Type: [ProtectedQueryError](#) object

Required: No

### **result**

The result of the protected query.

Type: [ProtectedQueryResult](#) object

Required: No

### **resultConfiguration**

Contains any details needed to write the query results.

Type: [ProtectedQueryResultConfiguration](#) object

Required: No

## sqlParameters

The protected query SQL parameters.

Type: [ProtectedQuerySQLParameters](#) object

Required: No

## statistics

Statistics about protected query execution.

Type: [ProtectedQueryStatistics](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedQueryError

Details of errors thrown by the protected query.

## Contents

### code

An error code for the error.

Type: String

Required: Yes

### message

A description of why the query failed.

Type: String

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedQueryOutput

Contains details about the protected query output.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### memberList

The list of member AWS account(s) that received the results of the query.

Type: Array of [ProtectedQuerySingleMemberOutput](#) objects

Required: No

### s3

If present, the output for a protected query with an `S3` output type.

Type: [ProtectedQueryS3Output](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedQueryOutputConfiguration

Contains configuration details for protected query output.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### s3

Required configuration for a protected query with an `S3` output type.

Type: [ProtectedQueryS3OutputConfiguration](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# ProtectedQueryResult

Details about the query results.

## Contents

### output

The output of the protected query.

Type: [ProtectedQueryOutput](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedQueryResultConfiguration

Contains configurations for protected query results.

## Contents

### outputConfiguration

Configuration for protected query results.

Type: [ProtectedQueryOutputConfiguration](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedQueryS3Output

Contains output information for protected queries with an S3 output type.

## Contents

### location

The S3 location of the result.

Type: String

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedQueryS3OutputConfiguration

Contains the configuration to write the query results to S3.

## Contents

### bucket

The S3 bucket to unload the protected query results.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 63.

Pattern: `.*(?:!(^(\d+\.)+\d+$)(^(([a-z0-9]|[a-z0-9][a-z0-9\-\-]*[a-z0-9])\.)*)*([a-z0-9]|[a-z0-9][a-z0-9\-\-]*[a-z0-9])$).*`

Required: Yes

### resultFormat

Intended file format of the result.

Type: String

Valid Values: CSV | PARQUET

Required: Yes

### keyPrefix

The S3 prefix to unload the protected query results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 512.

Pattern: `[\w! .=*/-]*`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedQuerySingleMemberOutput

Details about the member who received the query result.

## Contents

### accountId

The AWS account ID of the member in the collaboration who can receive results for the query.

Type: String

Length Constraints: Fixed length of 12.

Pattern: \d+

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedQuerySQLParameters

The parameters for the SQL type Protected Query.

## Contents

### analysisTemplateArn

The Amazon Resource Name (ARN) associated with the analysis template within a collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/analysis-template/[\d\w-]+`

Required: No

### parameters

The protected query SQL parameters.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 100.

Key Pattern: `[0-9a-zA-Z_]+`

Value Length Constraints: Minimum length of 0. Maximum length of 250.

Required: No

### queryString

The query string to be submitted.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 90000.

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# ProtectedQueryStatistics

Contains statistics about the execution of the protected query.

## Contents

### **totalDurationInMillis**

The duration of the Protected Query, from creation until query completion.

Type: Long

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedQuerySummary

The protected query summary for the objects listed by the request.

## Contents

### **createTime**

The time the protected query was created.

Type: Timestamp

Required: Yes

### **id**

The unique ID of the protected query.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **membershipArn**

The unique ARN for the membership that initiated the protected query.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+`

Required: Yes

### **membershipId**

The unique ID for the membership that initiated the protected query.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### status

The status of the protected query. Value values are ``SUBMITTED``, ``STARTED``, ``CANCELLED``, ``CANCELLING``, ``FAILED``, ``SUCCESS``, ``TIMED_OUT``.

Type: String

Valid Values: SUBMITTED | STARTED | CANCELLED | CANCELLING | FAILED | SUCCESS | TIMED\_OUT

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# QueryComputePaymentConfig

An object representing the collaboration member's payment responsibilities set by the collaboration creator for query compute costs.

## Contents

### isResponsible

Indicates whether the collaboration creator has configured the collaboration member to pay for query compute costs (TRUE) or has not configured the collaboration member to pay for query compute costs (FALSE).

Exactly one member can be configured to pay for query compute costs. An error is returned if the collaboration creator sets a TRUE value for more than one member in the collaboration.

If the collaboration creator hasn't specified anyone as the member paying for query compute costs, then the member who can query is the default payer. An error is returned if the collaboration creator sets a FALSE value for the member who can query.

Type: Boolean

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Schema

A schema is a relation within a collaboration.

## Contents

### **analysisRuleTypes**

The analysis rule types associated with the schema. Currently, only one entry is present.

Type: Array of strings

Valid Values: AGGREGATION | LIST | CUSTOM

Required: Yes

### **collaborationArn**

The unique ARN for the collaboration that the schema belongs to.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### **collaborationId**

The unique ID for the collaboration that the schema belongs to.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **columns**

The columns for the relation this schema represents.



Required: Yes

### **partitionKeys**

The partition keys for the dataset underlying this schema.

Type: Array of [Column](#) objects

Required: Yes

### **schemaStatusDetails**

Details about the status of the schema. Currently, only one entry is present.

Type: Array of [SchemaStatusDetail](#) objects

Required: Yes

### **type**

The type of schema. The only valid value is currently `TABLE`.

Type: String

Valid Values: TABLE

Required: Yes

### **updateTime**

The time the schema was last updated.

Type: Timestamp

Required: Yes

### **analysisMethod**

The analysis method for the schema. The only valid value is currently DIRECT\_QUERY.

Type: String

Valid Values: DIRECT\_QUERY

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# SchemaAnalysisRuleRequest

Defines the information that's necessary to retrieve an analysis rule schema. Schema analysis rules are uniquely identified by a combination of the schema name and the analysis rule type for a given collaboration.

## Contents

### name

The name of the analysis rule schema that you are requesting.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_ ]+ - ) * ( [a-zA-Z0-9_ ]+ ) ) ?`

Required: Yes

### type

The type of analysis rule schema that you are requesting.

Type: String

Valid Values: AGGREGATION | LIST | CUSTOM

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# SchemaStatusDetail

Information about the schema status.

A status of `READY` means that based on the schema analysis rule, queries of the given analysis rule type are properly configured to run queries on this schema.

## Contents

### status

The status of the schema.

Type: String

Valid Values: `READY` | `NOT_READY`

Required: Yes

### analysisRuleType

The analysis rule type for which the schema status has been evaluated.

Type: String

Valid Values: `AGGREGATION` | `LIST` | `CUSTOM`

Required: No

### configurations

The configuration details of the schema analysis rule for the given type.

Type: Array of strings

Valid Values: `DIFFERENTIAL_PRIVACY`

Required: No

### reasons

The reasons why the schema status is set to its current state.

Type: Array of [SchemaStatusReason](#) objects

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# SchemaStatusReason

A reason why the schema status is set to its current value.

## Contents

### code

The schema status reason code.

Type: String

Valid Values: ANALYSIS\_RULE\_MISSING | ANALYSIS\_TEMPLATES\_NOT\_CONFIGURED | ANALYSIS\_PROVIDERS\_NOT\_CONFIGURED | DIFFERENTIAL\_PRIVACY\_POLICY\_NOT\_CONFIGURED

Required: Yes

### message

An explanation of the schema status reason code.

Type: String

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# SchemaSummary

The schema summary for the objects listed by the request.

## Contents

### **analysisRuleTypes**

The types of analysis rules that are associated with this schema object.

Type: Array of strings

Valid Values: AGGREGATION | LIST | CUSTOM

Required: Yes

### **collaborationArn**

The unique ARN for the collaboration that the schema belongs to.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:collaboration/[\d\w-]+`

Required: Yes

### **collaborationId**

The unique ID for the collaboration that the schema belongs to.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **createTime**

The time the schema object was created.

Type: Timestamp

Required: Yes

### **creatorAccountId**

The unique account ID for the AWS account that owns the schema.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: Yes

### **name**

The name for the schema object.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_ ]+ - )*( [a-zA-Z0-9_ ]+ ))?`

Required: Yes

### **type**

The type of schema object. The only valid schema type is currently ``TABLE``.

Type: String

Valid Values: TABLE

Required: Yes

### **updateTime**

The time the schema object was last updated.

Type: Timestamp

Required: Yes

## analysisMethod

The analysis method for the associated schema. The only valid value is currently ``DIRECT_QUERY``.

Type: String

Valid Values: DIRECT\_QUERY

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# TableReference

A pointer to the dataset that underlies this table. Currently, this can only be an AWS Glue table.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

## glue

If present, a reference to the AWS Glue table referred to by this table reference.

Type: [GlueTableReference](#) object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# ValidationExceptionField

Describes validation errors for specific input parameters.

## Contents

### message

A message for the input validation error.

Type: String

Required: Yes

### name

The name of the input parameter.

Type: String

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see [Signing AWS API requests](#) in the *IAM User Guide*.

## Action

The action to be performed.

Type: string

Required: Yes

## Version

The API version that the request is written for, expressed in the format YYYY-MM-DD.

Type: string

Required: Yes

## X-Amz-Algorithm

The hash algorithm that you used to create the request signature.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

## X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4\_request"). The value is expressed in the following format: *access\_key/YYYYMMDD/region/service/aws4\_request*.

For more information, see [Create a signed AWS API request](#) in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

### **X-Amz-Date**

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: 20120325T120000Z.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see [Elements of an AWS API request signature](#) in the *IAM User Guide*.

Type: string

Required: Conditional

### **X-Amz-Security-Token**

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS STS, see [AWS services that work with IAM](#) in the *IAM User Guide*.

Condition: If you're using temporary security credentials from AWS STS, you must include the security token.

Type: string

Required: Conditional

### **X-Amz-Signature**

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

### **X-Amz-SignedHeaders**

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see [Create a signed AWS API request](#) in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

# Common Errors

This section lists the errors common to the API actions of all AWS services. For errors specific to an API action for this service, see the topic for that API action.

## **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

## **ExpiredTokenException**

The security token included in the request is expired

HTTP Status Code: 403

## **IncompleteSignature**

The request signature does not conform to AWS standards.

HTTP Status Code: 403

## **InternalFailure**

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

## **MalformedHttpRequestException**

Problems with the request at the HTTP level, e.g. we can't decompress the body according to the decompression algorithm specified by the content-encoding.

HTTP Status Code: 400

## **NotAuthorized**

You do not have permission to perform this action.

HTTP Status Code: 401

## **OptInRequired**

The AWS access key ID needs a subscription for the service.

HTTP Status Code: 403

### **RequestAbortedException**

Convenient exception that can be used when a request is aborted before a reply is sent back (e.g. client closed connection).

HTTP Status Code: 400

### **RequestEntityTooLargeException**

Problems with the request at the HTTP level. The request entity is too large.

HTTP Status Code: 413

### **RequestExpired**

The request reached the service more than 15 minutes after the date stamp on the request or more than 15 minutes after the request expiration date (such as for pre-signed URLs), or the date stamp on the request is more than 15 minutes in the future.

HTTP Status Code: 400

### **RequestTimeoutException**

Problems with the request at the HTTP level. Reading the Request timed out.

HTTP Status Code: 408

### **ServiceUnavailable**

The request has failed due to a temporary failure of the server.

HTTP Status Code: 503

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 400

### **UnrecognizedClientException**

The X.509 certificate or AWS access key ID provided does not exist in our records.

HTTP Status Code: 403

## **UnknownOperationException**

The action or operation requested is invalid. Verify that the action is typed correctly.

HTTP Status Code: 404

## **ValidationError**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400