# Table of Contents

Welcome ........................................................................................................................................... 1  
Actions ............................................................................................................................................. 2  
  BatchGetNamedQuery ................................................................. 3  
    Request Syntax ................................................................. 3  
    Request Parameters ......................................................... 3  
    Response Syntax .............................................................. 3  
    Response Elements ............................................................ 3  
    Errors .................................................................................. 4  
    See Also ............................................................................... 4  
  BatchGetQueryExecution ...................................................... 5  
    Request Syntax ................................................................. 5  
    Request Parameters ......................................................... 5  
    Response Syntax .............................................................. 5  
    Response Elements ............................................................ 6  
    Errors .................................................................................. 6  
    See Also ............................................................................... 6  
  CreateNamedQuery ................................................................. 8  
    Request Syntax ................................................................. 8  
    Request Parameters ......................................................... 8  
    Response Syntax .............................................................. 9  
    Response Elements ............................................................ 9  
    Errors .................................................................................. 9  
    See Also ............................................................................... 10  
  DeleteNamedQuery ................................................................. 11  
    Request Syntax ................................................................. 11  
    Request Parameters ......................................................... 11  
    Response Elements ............................................................ 11  
    Errors .................................................................................. 11  
    See Also ............................................................................... 11  
  GetNamedQuery ................................................................. 13  
    Request Syntax ................................................................. 13  
    Request Parameters ......................................................... 13  
    Response Syntax .............................................................. 13  
    Response Elements ............................................................ 13  
    Errors .................................................................................. 13  
    See Also ............................................................................... 13  
  GetQueryExecution ............................................................. 15  
    Request Syntax ................................................................. 15  
    Request Parameters ......................................................... 15  
    Response Syntax .............................................................. 15  
    Response Elements ............................................................ 15  
    Errors .................................................................................. 16  
    See Also ............................................................................... 16  
  GetQueryResults ................................................................. 17  
    Request Syntax ................................................................. 17  
    Request Parameters ......................................................... 17  
    Response Syntax .............................................................. 17  
    Response Elements ............................................................ 18  
    Errors .................................................................................. 18  
    See Also ............................................................................... 18  
  ListNamedQueries ............................................................... 20  
    Request Syntax ................................................................. 20  
    Request Parameters ......................................................... 20  
    Response Syntax .............................................................. 20  
    Response Elements ............................................................ 20  
    Errors .................................................................................. 20  
    See Also ............................................................................... 20  
Response Syntax .................................................................................................................. 20  
See Also .......................................................................................................................... 18  
Errors .............................................................................................................................. 18  
Response Elements ........................................................................................................... 13  
Request Parameters .......................................................................................................... 13  
Request Syntax ................................................................................................................ 13  
See Also ............................................................................................................................ 11  
Errors .............................................................................................................................. 11  
Response Elements ........................................................................................................... 11  
Request Parameters .......................................................................................................... 11  
Request Syntax ................................................................................................................ 11  
See Also ............................................................................................................................ 11  
Errors .............................................................................................................................. 11  
Response Elements ........................................................................................................... 11  
Request Parameters .......................................................................................................... 11  
Request Syntax ................................................................................................................ 11  
See Also ............................................................................................................................ 11  
Errors .............................................................................................................................. 11  
Response Elements ........................................................................................................... 11  
Request Parameters .......................................................................................................... 11  
Request Syntax ................................................................................................................ 11  
See Also ............................................................................................................................ 11  
Errors .............................................................................................................................. 11  
Response Elements ........................................................................................................... 11  
Request Parameters .......................................................................................................... 11  
Request Syntax ................................................................................................................ 11  
See Also ............................................................................................................................ 11  
Errors .............................................................................................................................. 11  
Response Elements ........................................................................................................... 11  
Request Parameters .......................................................................................................... 11  
Request Syntax ................................................................................................................ 11  
See Also ............................................................................................................................ 11  
Errors .............................................................................................................................. 11  
Response Elements ........................................................................................................... 11  
Request Parameters .......................................................................................................... 11  
Request Syntax ................................................................................................................ 11  
See Also ............................................................................................................................ 11  
Error
Welcome

Amazon Athena is an interactive query service that lets you use standard SQL to analyze data directly in Amazon S3. You can point Athena at your data in Amazon S3 and run ad-hoc queries and get results in seconds. Athena is serverless, so there is no infrastructure to set up or manage. You pay only for the queries you run. Athena scales automatically—executing queries in parallel—so results are fast, even with large datasets and complex queries. For more information, see What is Amazon Athena in the Amazon Athena User Guide.

If you connect to Athena using the JDBC driver, use version 1.1.0 of the driver or later with the Amazon Athena API. Earlier version drivers do not support the API. For more information and to download the driver, see Accessing Amazon Athena with JDBC.

For code samples using the AWS SDK for Java, see Examples and Code Samples in the Amazon Athena User Guide.

This document was last published on February 7, 2018.
Actions

The following actions are supported:

- BatchGetNamedQuery (p. 3)
- BatchGetQueryExecution (p. 5)
- CreateNamedQuery (p. 8)
- DeleteNamedQuery (p. 11)
- GetNamedQuery (p. 13)
- GetQueryExecution (p. 15)
- GetQueryResults (p. 17)
- ListNamedQueries (p. 20)
- ListQueryExecutions (p. 22)
- StartQueryExecution (p. 24)
- StopQueryExecution (p. 27)
BatchGetNamedQuery

Returns the details of a single named query or a list of up to 50 queries, which you provide as an array of query ID strings. Use ListNamedQueries (p. 20) to get the list of named query IDs. If information could not be retrieved for a submitted query ID, information about the query ID submitted is listed under UnprocessedNamedQueryId (p. 45). Named queries are different from executed queries. Use BatchGetQueryExecution (p. 5) to get details about each unique query execution, and ListQueryExecutions (p. 22) to get a list of query execution IDs.

Request Syntax

```json
{
   "NamedQueryIds": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 47).

The request accepts the following data in JSON format.

**NamedQueryIds (p. 3)**

An array of query IDs.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 50 items.

Required: Yes

Response Syntax

```json
{
   "NamedQueries": [ {
      "Database": "string",
      "Description": "string",
      "Name": "string",
      "NamedQueryId": "string",
      "QueryString": "string"
   } ],
   "UnprocessedNamedQueryIds": [ {
      "ErrorCode": "string",
      "ErrorMessage": "string",
      "NamedQueryId": "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.

**NamedQueries (p. 3)**

Information about the named query IDs submitted.

Type: Array of NamedQuery (p. 34) objects

**UnprocessedNamedQueryIds (p. 3)**

Information about provided query IDs.

Type: Array of UnprocessedNamedQueryId (p. 45) objects

### Errors

For information about the errors that are common to all actions, see Common Errors (p. 49).

**InternalServerException**

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

**InvalidRequestException**

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

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
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
BatchGetQueryExecution

Returns the details of a single query execution or a list of up to 50 query executions, which you provide as an array of query execution ID strings. To get a list of query execution IDs, use ListQueryExecutions (p. 22). Query executions are different from named (saved) queries. Use BatchGetNamedQuery (p. 3) to get details about named queries.

Request Syntax

```json
{
   "QueryExecutionIds": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 47).

The request accepts the following data in JSON format.

**QueryExecutionIds (p. 5)**

An array of query execution IDs.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 50 items.

Required: Yes

Response Syntax

```json
{
   "QueryExecutions": [
      {
         "Query": "string",
         "QueryExecutionContext": {
            "Database": "string"
         },
         "QueryExecutionId": "string",
         "ResultConfiguration": {
            "EncryptionConfiguration": {
               "EncryptionOption": "string",
               "KmsKey": "string"
            },
            "OutputLocation": "string"
         },
         "Statistics": {
            "DataScannedInBytes": number,
            "EngineExecutionTimeInMillis": number
         },
         "Status": {
            "CompletionDateTime": number,
            "State": "string",
            "StateChangeReason": "string",
            "SubmissionDateTime": 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.

**QueryExecutions (p. 5)**

Information about a query execution.

Type: Array of QueryExecution (p. 36) objects

**UnprocessedQueryExecutionIds (p. 5)**

Information about the query executions that failed to run.

Type: Array of UnprocessedQueryExecutionId (p. 46) objects

**Errors**

For information about the errors that are common to all actions, see [Common Errors (p. 49)](#).

**InternalServerException**

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

**InvalidRequestException**

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

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
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
See Also

- AWS SDK for Python
- AWS SDK for Ruby V2
CreateNamedQuery

Creates a named query.

For code samples using the AWS SDK for Java, see Examples and Code Samples in the Amazon Athena User Guide.

Request Syntax

```json
{
  "ClientRequestToken": "string",
  "Database": "string",
  "Description": "string",
  "Name": "string",
  "QueryString": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 47).

The request accepts the following data in JSON format.

**ClientRequestToken (p. 8)**

A unique case-sensitive string used to ensure the request to create the query is idempotent (executes only once). If another CreateNamedQuery request is received, the same response is returned and another query is not created. If a parameter has changed, for example, the QueryString, an error is returned.

**Important**

This token is listed as not required because AWS SDKs (for example the AWS SDK for Java) auto-generate the token for users. If you are not using the AWS SDK or the AWS CLI, you must provide this token or the action will fail.

Type: String


Required: No

**Database (p. 8)**

The database to which the query belongs.

Type: String


Required: Yes

**Description (p. 8)**

A brief explanation of the query.

Type: String

Required: No

**Name (p. 8)**

The plain language name for the query.

Type: String


Required: Yes

**QueryString (p. 8)**

The text of the query itself. In other words, all query statements.

Type: String


Required: Yes

---

### Response Syntax

```
{
  "NamedQueryId": "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.

**NamedQueryId (p. 9)**

The unique ID of the query.

Type: String

---

### Errors

For information about the errors that are common to all actions, see [Common Errors (p. 49)](#).

**InternalServerException**

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

**InvalidRequestException**

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

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
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
DeleteNamedQuery

Deletes a named query.

For code samples using the AWS SDK for Java, see Examples and Code Samples in the Amazon Athena User Guide.

Request Syntax

```
{
   "NamedQueryId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 47).

The request accepts the following data in JSON format.

**NamedQueryId (p. 11)**

- The unique ID of the query to delete.
- Type: String
- Required: Yes

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 (p. 49).

**InternalServerException**

- Indicates a platform issue, which may be due to a transient condition or outage.
- HTTP Status Code: 500

**InvalidRequestException**

- Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.
- 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
• AWS SDK for Java
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V2
GetNamedQuery

Returns information about a single query.

Request Syntax

```
{
  "NamedQueryId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 47).

The request accepts the following data in JSON format.

**NamedQueryId (p. 13)**

The unique ID of the query. Use ListNamedQueries (p. 20) to get query IDs.

Type: String  
Required: Yes

Response Syntax

```
{
  "NamedQuery": {
    "Database": "string",
    "Description": "string",
    "Name": "string",
    "NamedQueryId": "string",
    "QueryString": "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.

**NamedQuery (p. 13)**

Information about the query.

Type: NamedQuery (p. 34) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 49).
InternalServerException

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

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
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
GetQueryExecution

Returns information about a single execution of a query. Each time a query executes, information about the query execution is saved with a unique ID.

Request Syntax

```json
{
  "QueryExecutionId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 47).

The request accepts the following data in JSON format.

**QueryExecutionId (p. 15)**

The unique ID of the query execution.

Type: String

Required: Yes

Response Syntax

```json
{
  "QueryExecution": {
    "Query": "string",
    "QueryExecutionContext": {
      "Database": "string"
    },
    "QueryExecutionId": "string",
    "ResultConfiguration": {
      "EncryptionConfiguration": {
        "EncryptionOption": "string",
        "KmsKey": "string"
      },
      "OutputLocation": "string"
    },
    "Statistics": {
      "DataScannedInBytes": number,
      "EngineExecutionTimeInMillis": number
    },
    "Status": {
      "CompletionDateTime": number,
      "State": "string",
      "StateChangeReason": "string",
      "SubmissionDateTime": 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.

QueryExecution (p. 15)

Information about the query execution.

Type: QueryExecution (p. 36) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 49).

InternalServerException

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

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
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
GetQueryResults

Returns the results of a single query execution specified by `QueryExecutionId`. This request does not execute the query but returns results. Use `StartQueryExecution` (p. 24) to run a query.

**Request Syntax**

```json
{
    "MaxResults": number,
    "NextToken": "string",
    "QueryExecutionId": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see `Common Parameters` (p. 47).

The request accepts the following data in JSON format.

**MaxResults (p. 17)**

- The maximum number of results (rows) to return in this request.
- Type: Integer
- Valid Range: Minimum value of 0. Maximum value of 1000.
- Required: No

**NextToken (p. 17)**

- The token that specifies where to start pagination if a previous request was truncated.
- Type: String
- Required: No

**QueryExecutionId (p. 17)**

- The unique ID of the query execution.
- Type: String
- Required: Yes

**Response Syntax**

```json
{
    "NextToken": "string",
    "ResultSet": {
        "ResultSetMetadata": {
            "ColumnInfo": [
                {
                    "CaseSensitive": boolean,
                    "CatalogName": "string",
                    "Label": "string",
                    "Name": "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 (p. 17)

A token to be used by the next request if this request is truncated.

Type: String

ResultSet (p. 17)

The results of the query execution.

Type: ResultSet (p. 42) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 49).

InternalServerException

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

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
• AWS SDK for Java
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V2
ListNamedQueries

Provides a list of all available query IDs.

For code samples using the AWS SDK for Java, see Examples and Code Samples in the Amazon Athena User Guide.

Request Syntax

```json
{
    "MaxResults": number,
    "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 47).

The request accepts the following data in JSON format.

MaxResults (p. 20)

The maximum number of queries to return in this request.

- Type: Integer
- Valid Range: Minimum value of 0. Maximum value of 50.
- Required: No

NextToken (p. 20)

The token that specifies where to start pagination if a previous request was truncated.

- Type: String
- Required: No

Response Syntax

```json
{
    "NamedQueryIds": [ "string" ],
    "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.

NamedQueryIds (p. 20)

The list of unique query IDs.
Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 50 items.

**NextToken (p. 20)**

A token to be used by the next request if this request is truncated.

Type: String

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 49).

**InternalServerException**

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

**InvalidRequestException**

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

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
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
ListQueryExecutions

Provides a list of all available query execution IDs.

For code samples using the AWS SDK for Java, see Examples and Code Samples in the Amazon Athena User Guide.

Request Syntax

```json
{
    "MaxResults": number,
    "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 47).

The request accepts the following data in JSON format.

MaxResults (p. 22)

The maximum number of query executions to return in this request.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 50.

Required: No

NextToken (p. 22)

The token that specifies where to start pagination if a previous request was truncated.

Type: String

Required: No

Response Syntax

```json
{
    "NextToken": "string",
    "QueryExecutionIds": [ "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 (p. 22)

A token to be used by the next request if this request is truncated.
Type: String

**QueryExecutionIds (p. 22)**

The unique IDs of each query execution as an array of strings.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 50 items.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 49).

**InternalServerException**

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

**InvalidRequestException**

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

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
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
StartQueryExecution

Runs (executes) the SQL query statements contained in the `queryString` string.

For code samples using the AWS SDK for Java, see Examples and Code Samples in the Amazon Athena User Guide.

Request Syntax

```json
{
   "ClientRequestToken": "string",
   "QueryExecutionContext": {
      "Database": "string"
   },
   "QueryString": "string",
   "ResultConfiguration": {
      "EncryptionConfiguration": {
         "EncryptionOption": "string",
         "KmsKey": "string"
      },
      "OutputLocation": "string"
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 47).

The request accepts the following data in JSON format.

**ClientRequestToken (p. 24)**

A unique case-sensitive string used to ensure the request to create the query is idempotent (executes only once). If another StartQueryExecution request is received, the same response is returned and another query is not created. If a parameter has changed, for example, the `QueryString`, an error is returned.

**Important**

This token is listed as not required because AWS SDKs (for example the AWS SDK for Java) auto-generate the token for users. If you are not using the AWS SDK or the AWS CLI, you must provide this token or the action will fail.

Type: String


Required: No

**QueryExecutionContext (p. 24)**

The database within which the query executes.

Type: `QueryExecutionContext (p. 38)` object

Required: No

**QueryString (p. 24)**

The SQL query statements to be executed.
Response Syntax

```
{
  "QueryExecutionId": "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.

QueryExecutionId (p. 25)

The unique ID of the query that ran as a result of this request.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 49).

InternalServerException

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

HTTP Status Code: 400

TooManyRequestsException

Indicates that the request was throttled.

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
• AWS SDK for Java
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V2
StopQueryExecution

Stops a query execution.

For code samples using the AWS SDK for Java, see Examples and Code Samples in the Amazon Athena User Guide.

Request Syntax

```json
{
   "QueryExecutionId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 47).

The request accepts the following data in JSON format.

**QueryExecutionId (p. 27)**

The unique ID of the query execution to stop.

- Type: String
- Required: Yes

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 (p. 49).

**InternalServerException**

Indicates a platform issue, which may be due to a transient condition or outage.

- HTTP Status Code: 500

**InvalidRequestException**

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

- 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
See Also

- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
Data Types

The Amazon Athena 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:

- ColumnInfo (p. 30)
- Datum (p. 32)
- EncryptionConfiguration (p. 33)
- NamedQuery (p. 34)
- QueryExecution (p. 36)
- QueryExecutionContext (p. 38)
- QueryExecutionStatistics (p. 39)
- QueryExecutionStatus (p. 40)
- ResultConfiguration (p. 41)
- ResultSet (p. 42)
- ResultSetMetadata (p. 43)
- Row (p. 44)
- UnprocessedNamedQueryId (p. 45)
- UnprocessedQueryExecutionId (p. 46)
ColumnInfo

Information about the columns in a query execution result.

Contents

CaseSensitive

Indicates whether values in the column are case-sensitive.

Type: Boolean
Required: No

CatalogName

The catalog to which the query results belong.

Type: String
Required: No

Label

A column label.

Type: String
Required: No

Name

The name of the column.

Type: String
Required: Yes

Nullable

Indicates the column's nullable status.

Type: String
Valid Values: NOT_NULL | NULLABLE | UNKNOWN
Required: No

Precision

For DECIMAL data types, specifies the total number of digits, up to 38. For performance reasons, we recommend up to 18 digits.

Type: Integer
Required: No

Scale

For DECIMAL data types, specifies the total number of digits in the fractional part of the value. Defaults to 0.

Type: Integer
Required: No

**SchemaName**

The schema name (database name) to which the query results belong.

Type: String

Required: No

**TableName**

The table name for the query results.

Type: String

Required: No

**Type**

The data type of the column.

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 Go
- AWS SDK for Java
- AWS SDK for Ruby V2
Datum

A piece of data (a field in the table).

Contents

VarCharValue

The value of the datum.

Type: String

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 Go
- AWS SDK for Java
- AWS SDK for Ruby V2
EncryptionConfiguration

If query results are encrypted in Amazon S3, indicates the encryption option used (for example, SSE-KMS or CSE-KMS) and key information.

Contents

EncryptionOption

Indicates whether Amazon S3 server-side encryption with Amazon S3-managed keys (SSE-S3), server-side encryption with KMS-managed keys (SSE-KMS), or client-side encryption with KMS-managed keys (CSE-KMS) is used.

Type: String

Valid Values: SSE_S3 | SSE_KMS | CSE_KMS

Required: Yes

KmsKey

For SSE-KMS and CSE-KMS, this is the KMS key ARN or ID.

Type: String

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 Go
- AWS SDK for Java
- AWS SDK for Ruby V2
NamedQuery

A query, where `QueryString` is the SQL query statements that comprise the query.

Contents

Database

The database to which the query belongs.

Type: String


Required: Yes

Description

A brief description of the query.

Type: String


Required: No

Name

The plain-language name of the query.

Type: String


Required: Yes

NamedQueryId

The unique identifier of the query.

Type: String

Required: No

QueryString

The SQL query statements that comprise the query.

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 Go
• AWS SDK for Java
• AWS SDK for Ruby V2
QueryExecution

Information about a single instance of a query execution.

Contents

Query

The SQL query statements which the query execution ran.

Type: String


Required: No

QueryExecutionContext

The database in which the query execution occurred.

Type: QueryExecutionContext (p. 38) object

Required: No

QueryExecutionId

The unique identifier for each query execution.

Type: String

Required: No

ResultConfiguration

The location in Amazon S3 where query results were stored and the encryption option, if any, used for query results.

Type: ResultConfiguration (p. 41) object

Required: No

Statistics

The amount of data scanned during the query execution and the amount of time that it took to execute.

Type: QueryExecutionStatistics (p. 39) object

Required: No

Status

The completion date, current state, submission time, and state change reason (if applicable) for the query execution.

Type: QueryExecutionStatus (p. 40) 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 Go
• AWS SDK for Java
• AWS SDK for Ruby V2
QueryExecutionContext

The database in which the query execution occurs.

Contents

Database

The name of the database.

Type: String


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 Go
- AWS SDK for Java
- AWS SDK for Ruby V2
QueryExecutionStatistics

The amount of data scanned during the query execution and the amount of time that it took to execute.

Contents

**DataScannedInBytes**

The number of bytes in the data that was queried.

Type: Long

Required: No

**EngineExecutionTimeInMillis**

The number of milliseconds that the query took to execute.

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 Go
- AWS SDK for Java
- AWS SDK for Ruby V2
QueryExecutionStatus

The completion date, current state, submission time, and state change reason (if applicable) for the query execution.

Contents

CompletionDateTime

The date and time that the query completed.

Type: Timestamp

Required: No

State

The state of query execution. SUBMITTED indicates that the query is queued for execution. RUNNING indicates that the query is scanning data and returning results. SUCCEEDED indicates that the query completed without error. FAILED indicates that the query experienced an error and did not complete processing. CANCELLED indicates that user input interrupted query execution.

Type: String

Valid Values: RUNNING | SUCCEEDED | FAILED | CANCELLED

Required: No

StateChangeReason

Further detail about the status of the query.

Type: String

Required: No

SubmissionDateTime

The date and time that the query was submitted.

Type: Timestamp

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 Go
- AWS SDK for Java
- AWS SDK for Ruby V2
ResultConfiguration

The location in Amazon S3 where query results are stored and the encryption option, if any, used for query results.

Contents

EncryptionConfiguration

If query results are encrypted in Amazon S3, indicates the encryption option used (for example, SSE-KMS or CSE-KMS) and key information.

Type: EncryptionConfiguration (p. 33) object

Required: No

OutputLocation

The location in Amazon S3 where your query results are stored, such as s3://path/to/query/bucket/. For more information, see Queries and Query Result Files.

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 Go
- AWS SDK for Java
- AWS SDK for Ruby V2
ResultSet

The metadata and rows that comprise a query result set. The metadata describes the column structure and data types.

Contents

ResultSetMetadata

The metadata that describes the column structure and data types of a table of query results.

Type: ResultSetMetadata (p. 43) object

Required: No

Rows

The rows in the table.

Type: Array of Row (p. 44) 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 Go
- AWS SDK for Java
- AWS SDK for Ruby V2
ResultSetMetadata

The metadata that describes the column structure and data types of a table of query results.

Contents

ColumnInfo

Information about the columns in a query execution result.

Type: Array of ColumnInfo (p. 30) 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 Go
- AWS SDK for Java
- AWS SDK for Ruby V2
Row

The rows that comprise a query result table.

Contents

Data

The data that populates a row in a query result table.

Type: Array of Datum (p. 32) 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 Go
- AWS SDK for Java
- AWS SDK for Ruby V2
UnprocessedNamedQueryId

Information about a named query ID that could not be processed.

Contents

ErrorCode

The error code returned when the processing request for the named query failed, if applicable.

Type: String
Length Constraints: Minimum length of 1. Maximum length of 256.
Required: No

ErrorMessage

The error message returned when the processing request for the named query failed, if applicable.

Type: String
Required: No

NamedQueryId

The unique identifier of the named query.

Type: String
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 Go
- AWS SDK for Java
- AWS SDK for Ruby V2
UnprocessedQueryExecutionId

Describes a query execution that failed to process.

Contents

ErrorMessage

The error message returned when the query execution failed to process, if applicable.

Type: String

Required: No

QueryExecutionId

The unique identifier of the query execution.

Type: String

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 Go
- AWS SDK for Java
- AWS SDK for Ruby V2
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 Signature Version 4 Signing Process in the Amazon Web Services General Reference.

**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 Task 2: Create a String to Sign for Signature Version 4 in the Amazon Web Services General Reference.

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 Handling Dates in Signature Version 4 in the Amazon Web Services General Reference.

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 Security Token Service, go to AWS Services That Work with IAM in the IAM User Guide.

Condition: If you're using temporary security credentials from the AWS Security Token Service, 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 Task 1: Create a Canonical Request For Signature Version 4 in the Amazon Web Services General Reference.

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: 400

**IncompleteSignature**

The request signature does not conform to AWS standards.

HTTP Status Code: 400

**InternalFailure**

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

**InvalidAction**

The action or operation requested is invalid. Verify that the action is typed correctly.

HTTP Status Code: 400

**InvalidClientTokenId**

The X.509 certificate or AWS access key ID provided does not exist in our records.

HTTP Status Code: 403

**InvalidParameterCombination**

Parameters that must not be used together were used together.

HTTP Status Code: 400

**InvalidParameterValue**

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

**InvalidQueryParameter**

The AWS query string is malformed or does not adhere to AWS standards.

HTTP Status Code: 400

**MalformedQueryString**

The query string contains a syntax error.

HTTP Status Code: 404

**MissingAction**

The request is missing an action or a required parameter.

HTTP Status Code: 400
**MissingAuthenticationToken**

The request must contain either a valid (registered) AWS access key ID or X.509 certificate.

HTTP Status Code: 403

**MissingParameter**

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

**OptInRequired**

The AWS access key ID needs a subscription for the service.

HTTP Status Code: 403

**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

**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

**ValidationError**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400