Informatica

Informatica® Cloud Data Integration

Open Table Connector

Informatica Cloud Data Integration Open Table Connector
July 2024

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Publication Date: 2024-07-15

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Preface

Use Open Table Connector to learn how to read from or write to Apache Iceberg tables by using Cloud Data Integration. Learn to create an Open Table connection, develop and run mappings, and mapping tasks in Cloud Data Integration.

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CHAPTER 1

Introduction to Open Table Connector

You can use Open Table Connector to connect to a catalog from Data Integration to read from and write data to Open Table formats.

You can create an Open Table connection and use the connection in mappings in advanced mode to securely read from or write data to Open Table formats available in a catalog. For example, you can use Open Table connection to read from or write data to Apache Iceberg tables available in AWS Glue Catalog.

Open Table Connector assets

Create assets in Data Integration to integrate data using Open Table Connector.

When you use Open Table Connector, you can include the following Data Integration assets:

- Mapping
- Mapping task

Important: You can use Open Table Connector only in mappings in advanced mode. You can run a task based on a mapping in advanced mode.

For more information about configuring assets and transformations, see *Mappings*, *Transformations*, and *Tasks* in the Data Integration documentation.

CHAPTER 2

Connections for Open Table

Create an Open Table connection to securely read from or write data to Open Table formats available in a catalog.

You can use an Open Table connection to specify sources, targets, and lookups in mappings and mapping tasks.

Prerequisites

Before you create an Open Table connection with Apache Iceberg format, complete the prerequisites.
To interact with Apache Iceberg tables, you need to have access to the following AWS services that manage Apache Iceberg tables on AWS:

- Amazon S3: Amazon S3 stores the Apache Iceberg tables containing actual records in columnar format, organized in partitioned directories.
- AWS Glue Catalog: AWS Glue Data Catalog manages the metadata associated with the Apache Iceberg tables.
- Amazon Athena: Amazon Athena connects to the Glue catalog to access Iceberg table metadata and perform SQL queries on data stored in S3.

You need to create separate policies to access these services.

Create minimal IAM policies

You need to create IAM policies with the minimum required permissions to interact with Apache Iceberg tables managed by AWS Glue Catalog. For more information on configuring these policies, refer to the AWS documentation.

Minimum policy for Amazon Athena

The following sample policy shows the minimal Amazon IAM policy to access Amazon Athena:

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Sid": "VisualEditor0",
            "Effect": "Allow",
            "Action": [
                "athena:CreatePreparedStatement",
                "athena:GetPreparedStatement",
                "athena:GetWorkGroup",
                "athena:GetTableMetadata",
                "athena:StartQueryExecution",
```

```
                "athena:GetQueryResultsStream",
                "athena:ListDatabases",
                "athena:GetQueryExecution",
                "athena:GetQueryResults",
                "athena:GetDatabase",
                "athena:ListTableMetadata",
                "athena:GetDataCatalog",
                "athena:DeletePreparedStatement"
            ],
            "Resource": [
                "arn:aws:athena:*:*:workgroup/*",
                "arn:aws:athena:*:*:datacatalog/*"
            ]
        },
        {
            "Sid": "VisualEditor1",
            "Effect": "Allow",
            "Action": [
                "athena:ListDataCatalogs",
                "athena:GetQueryExecution",
                "athena:ListWorkGroups",
                "athena:GetPreparedStatement"
            ],
            "Resource": "*"
        }
    ]
}
```

Minimum policy for AWS Glue

The following sample policy shows the minimal Amazon IAM policy to access AWS Glue catalog:

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Effect": "Allow",
            "Action": [
                "glue:*"
            ],
            "Resource": [
                "*"
            ]
        }
    ]
}
```

Minimum policy for AWS S3

The following sample policy shows the minimal Amazon IAM policy to read from or write data to an Amazon S3 bucket:

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Sid": "VisualEditor0",
            "Effect": "Allow",
            "Action": [
                "s3:PutObject",
                "s3:GetObject",
                "s3:ListBucket",
                "s3:DeleteObject"
            ],
            "Resource": "*"
        },
        {
            "Effect": "Allow",
            "Action": [
                "s3:ListBucket",
                "s3:GetBucketLocation",
```

```
                "s3:ListAllMyBuckets",
                "s3:GetBucketAcl"
            ],
            "Resource": [
                "*"
            ]
        }
    ]
}
```

Adding the Amazon Athena JDBC driver

Before you use Open Table Connector, you must copy the Amazon Athena JDBC driver on the Windows or Linux machine where you installed the Secure Agent.

1. Download the latest Amazon Athena JDBC driver from the Amazon website.
2. Navigate to the following directory on the Secure Agent machine:

   `<Secure Agent installation directory>/ext/connectors/thirdparty/`
3. Create the following folders:

   `informatica.opentableformat/common`
4. Add the JDBC driver to the folder created in step 3.
5. Restart the Secure Agent.

Connect to Open Table

Let's configure the Open Table connection properties to connect to AWS Glue Catalog.

Before you begin

Before you get started, you'll need to add the Athena JDBC driver and configure the authentication-specific prerequisites.

Permanent IAM Credentials authentication requires the access key and secret key values of the IAM user. Keep the access key and secret key handy before creating the connection. For more information about creating an access key and secret key, see the AWS documentation.

Check out "Prerequisites" on page 7 to learn more about how to configure policies and role to access Apache Iceberg tables.

Connection details

The following table describes the Open Table connection properties:

Property	Description
Connection Name	Name of the connection. Each connection name must be unique within the organization. Connection names can contain alphanumeric characters, spaces, and the following special characters: _ . + -, Maximum length is 255 characters.
Description	Description of the connection. Maximum length is 4000 characters.
Type	Open Table
Runtime Environment	The name of the runtime environment where you want to run tasks. Select a Secure Agent, Hosted Agent, or serverless runtime environment.
Open Table Format	The open table format that you want to use to read from or write data to a catalog.
Catalog Type	The catalog that you want to connect to store the metadata of the Apache Iceberg tables.
Storage Type	The storage type that you want to use to store the Apache Iceberg tables.
Athena JDBC URL	Enter the JDBC URL in the following format: `jdbc:athena://Region=<AWS_Region>;OutputLocation=<S3_Location>` For example, jdbc:athena://Region=us-west1;OutputLocation=s3://working/dir.
Authentication Type	The authentication type to access Open Table formats.
Access Key	The key to access the AWS Glue Catalog.
Secret Key	The secret key to access the AWS Glue Catalog. The secret key is associated with the access key and uniquely identifies the account.

CHAPTER 3

Mappings and mapping tasks with Open Table Connector

Use the Data Integration Mapping Designer to define and configure a mapping in advanced mode for Open Table sources and targets.

In advanced mode, the Mapping Designer updates the mapping canvas to include transformations and functions that enable advanced functionality.

When you run a mapping in advanced mode, Data Integration analyzes the data logic defined in the mapping to automatically assign data logic to run on an advanced cluster.

You can use Monitor to monitor the job.

Open Table sources in mappings

When you configure a mapping in advanced mode to use an Open Table source, you can configure the source properties.

Specify the name and description of the Open Table source. Configure the source and advanced source properties for the Open Table object.

The following table describes the Open Table source properties that you can configure in a Source transformation:

Property	Description
Connection	Name of the source connection. You can select an existing connection, create a new connection, or define parameter values for the source connection property. If you want to overwrite the source connection properties at run time, select the **Allow parameter to be overridden at run time** option.
Source Type	Type of the Open Table source object. You can choose from the following source types: - **Single Object**. Select to specify a single Open Table object. - **Multiple Objects**. This property does not apply to Source transformation. - **Parameter**. Select to specify a parameter name. You can configure the source object in a mapping task associated with a mapping that uses this Source transformation.

Property	Description
Parameter	A parameter file where you define values that you want to update without the need to edit the task. Select an existing parameter for the source object or click **New Parameter** to define a new parameter for the source object. The **Parameter** property appears only if you select parameter as the source type. If you want to overwrite the parameter at run time, select the **Allow parameter to be overridden at run time** option. When the task runs, the Secure Agent uses the parameters from the file that you specify in the advanced session properties.
Object	Source object for the mapping.

The following table describes the Open Table query options that you can configure in a Source transformation:

Property	Description
Filter	Filter value in a read operation. Click **Configure** to add conditions to filter records and reduce the number of rows that the Secure Agent reads from the source. You can specify the following filter conditions: - **Not Parameterized**. Use a basic filter to specify the object, field, operator, and value to select specific records. - **Completely Parameterized**. Use a parameter to represent the field mapping. - **Advanced**. Use an advanced filter to define a more complex filter condition that uses the Open Table query format.
Sort	Not applicable

The following table describes the Open Table source advanced properties that you can configure in a Source transformation:

Property	Description

S3 Properties	The S3FileIO properties that you want to configure.
	Enter properties in the following format:
	`<parameter name>=<parameter value>`
	If you enter more than one property, enter each property in a new line. For example,
	`s3.access-points.bucket1=<S3 bucket ARN>`
	`s2.multipart.threshold=1.5`
	Note: The S3 bucket ARN property is mandatory when the source and target are in different regions.

Tracing Level	Sets the amount of detail that appears in the log file. You can choose terse, normal, verbose initialization, or verbose data. Default is normal.

Open Table targets in mappings

When you configure a mapping in advanced mode to use an Open Table target, you can configure the target properties.

Specify the name and description of the Open Table target. Configure the target and advanced target properties for the Open Table object in a Target transformation.

The following table describes the Open Table source properties that you can configure in a Target transformation:

Property	Description
Connection	Name of the target connection. You can select an existing connection, create a new connection, or define parameter values for the source connection property. If you want to overwrite the target connection properties at run time, select the **Allow parameter to be overridden at run time** option.
Target Type	Type of the Open Table target object. You can choose from the following source types: - **Single Object**. Select to specify a single Open Table object. - **Parameter**. Select to specify a parameter name. You can configure the target object in a mapping task associated with a mapping that uses this Target transformation.
Parameter	A parameter file where you define values that you want to update without having to edit the task. Select an existing parameter for the target object or click **New Parameter** to define a new parameter for the target object. The **Parameter** property appears only if you select parameter as the target type. If you want to overwrite the target object at run time, select the **Allow parameter to be overridden at run time** option. When the task runs, the Secure Agent uses the parameters from the file that you specify in the advanced session properties.
Object	Name of the target object. You can select an existing object from the list or create a target object at run time. For information on creating the target object at run time, see the "Create a target table at runtime" on page 14 topic.
Operation	Select the target operation. You can perform the Insert operation on an Open Table target.

The following table describes the Open Table source advanced property that you can configure in a Target transformation:

Property	Description

S3 Properties	The S3FileIO properties that you want to configure.
	Enter properties in the following format:
	`<parameter name>=<parameter value>`
	If you enter more than one property, enter each property in a new line. For example,
	`s3.access-points.bucket1=<S3 bucket ARN>`
	`s2.multipart.threshold=1.5`
	Note: The S3 bucket ARN property is mandatory when the source and target are in different regions.

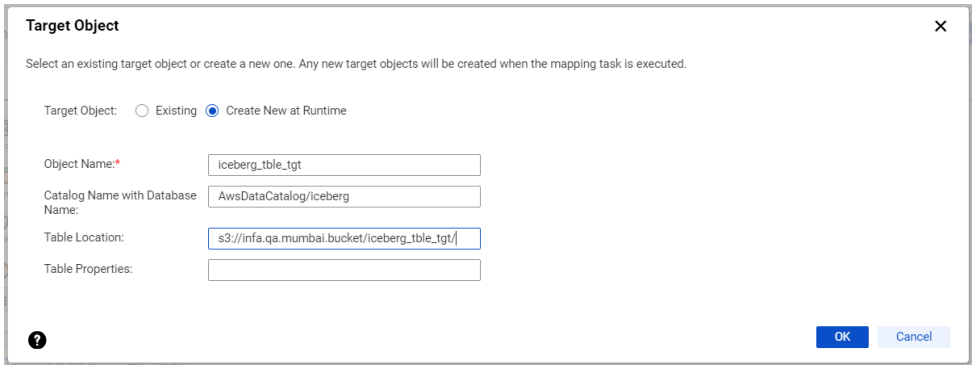
Create a target table at runtime

You can use an existing target or create a target to hold the results of a mapping. If you choose to create the target, the agent creates the target if it does not exist already when you run the task.

To specify the target properties, perform the following tasks:

1. Select the Target transformation in the mapping.
2. To specify the target, click the **Target** tab.
3. Select the target connection.
4. For the target type, choose **Single Object** or **Parameter**.
5. Specify the target object or parameter.
6. To specify a target object, perform the following tasks:
   a. Click **Select** and choose a target object. You can select an existing target object or create a new target object at runtime.
   b. To create a target object at runtime, select **Create New at Runtime**.
   c. In the **Object Name** field, enter the name of the target table that you want to create.
   d. In the **Catalog Name with Database Name** field, enter the AWS Glue catalog name and database name in the following format: `<CatalogName>/<DatabaseName>`.
   e. In the **Table Location** field, enter the location of the target table data.
   f. Specify the table properties to optimize the table configuration settings.
   g. Click **OK**.

   The following image shows a sample target object:



Open Table lookups in mappings

In a mapping in advanced mode, you can configure a Lookup transformation to represent an Open Table object.

You can retrieve data from an Open Table lookup object based on the specified lookup condition.

The following table describes the Open Table lookup properties that you can configure in a Lookup transformation:

Property	Description
Connection	Name of the lookup connection. You can select an existing connection, create a new connection, or define parameter values for the lookup connection property. If you want to overwrite the target connection properties at run time, select the **Allow parameter to be overridden at run time** option.
Source Type	Type of the Open Table lookup object. Select one of the following lookup object types: - **Single Object**. Select to specify a single Open Table object. - **Parameter**. Select to specify a parameter name. You can configure the lookup object in a mapping task associated with a mapping that uses this Lookup transformation.
Parameter	A parameter file where you define values that you want to update without having to edit the task. Select an existing parameter for the lookup object or click **New Parameter** to define a new parameter for the lookup object. The **Parameter** property appears only if you select parameter as the source type. If you want to overwrite the lookup object at run time, select the **Allow parameter to be overridden at run time** option. When the task runs, the Secure Agent uses the parameters from the file that you specify in the advanced session properties.
Lookup Object	Name of the Open Table lookup object.
Multiple Matches	The behavior when the lookup condition returns multiple matches. You can select one of the following options: - Return any row - Return all rows - Report error For more information about configuring lookups, see the *Transformations* guide in the Data Integration documentation.

The following table describes the Open Table source advanced property that you can configure in a Lookup transformation:

Property	Description

S3 Properties	The S3FileIO properties that you want to configure.
	Enter properties in the following format:
	`<parameter name>=<parameter value>`
	If you enter more than one property, enter each property in a new line. For example,
	`s3.access-points.bucket1=<S3 bucket ARN>`
	`s2.multipart.threshold=1.5`
	Note: The S3 bucket ARN property is mandatory when the source and target are in different regions.

Using time travel queries

You can use the time travel feature in Apache Iceberg to query or roll back historical data of a table.

When you create or delete Apache Iceberg table items, it automatically generates a snapshot and replaces the old data with the snapshot data. You can utilize these snapshots to perform time travel queries and roll back data as it existed at a specific point in time or at a specific snapshot.

When you configure a source transformation in a mapping, you can use the advanced filter option in your Open Table object to configure a time travel query. The query fetches the data based on a timestamp or snapshot ID you specify.

You can use one of the following queries to retrieve the data:

- **Query by Timestamp**: You can query an Iceberg table as it existed at a particular timestamp. For example, if you want to time travel to October 26, 1986 at 01:21:00, use the following time travel query:
  `for TIMESTAMP AS OF TIMESTAMP'1986-10-26 01:21:00'`
- **Query by Snapshot ID** : You can query an Iceberg table by specifying a snapshot ID. Each snapshot has a unique identifier. For example, if you want to time travel to a snapshot with ID 10963874102873, use the following time travel query:
  `for VERSION AS OF 10963874102873`

Rules and Guidelines for Open Table tasks

You need to follow certain rules and guidelines to configure tasks that uses Open Table Connector.

Consider the following rules and guidelines when you configure a task:

- A mapping fails at run time when you specify a simple filter with **Starts With**, **Ends With**, or **Contains** operators to retrieve data. To avoid this issue, configure an advanced filter with a `like` query to filter query results based on patterns instead of exact textual matches.
- When you configure an advanced data filter for a field of Timestamp data type, the filter ignores the time and considers only the date.
- When you use a simple filter on the date or timestamp data type column to read data, the task fails at run time with the following error:

  `An error occurred during mapping translation: Invalid expression string for filter condition`

  As a workaround, use the advance filter to filter date and timestamp data type columns from an Open Table source.
- You can't use uncached lookup in the Lookup transformation.
- When you run a mapping with an Open Table connection to read from or write data to Apache Iceberg tables available in AWS Glue Catalog, the mapping fails if the source and target are pointing to different AWS Glue catalogs available in different regions.

CHAPTER 4

Data type reference

Data Integration uses the following data types in Open Table mappings and mapping tasks:

- **Open Table native data types**: Open Table data types appear in the source and target transformations when you choose to edit metadata for the fields.
- **Transformation data types**: Set of data types that appear in the transformations. They are internal data types based on ANSI SQL-92 generic data types, which the Secure Agent uses to move data across platforms. Transformation data types appear in all transformations in a mapping.
  When Data Integration reads source data, it converts the native data types to the comparable transformation data types before transforming the data. When Data Integration writes to a target, it converts the transformation data types to the comparable native data types.

Open Table and transformation data types

The following table lists the Open Table data types that Data Integration supports and the corresponding transformation data types:

Open Table data type	Transformation data type	Description
Boolean	String	True or false
Int	Integer	2^{31} to 2^{31} -1.
Float	Double	1.40129846432481707e-45 to 3.40282346638528860e+38, positive or negative.
Double	Double	4.94065645841246544e-324d to 1.79769313486231570e+308d, positive or negative.
Decimal(Precision, Scale)	Decimal	The maximum value for precision is 38, and the maximum value for scale is 38.
Date	Date/Time	Calendar date without timezone and time. 0001-01-01 to 9999-12-31 Precision 29, scale 9

Open Table data type	Transformation data type	Description
Timestamp	Date/Time	Timestamp without timezone. Jan 1, 0001 A.D. to Dec 31, 9999 A.D. (Precision to the microsecond)
String	String	Variable length character data.
Binary	Binary	Variable length binary data.

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