



Informatica® Data Integration - Free & PayGo

Amazon Aurora Connector

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Preface

Use *Amazon Aurora Connector* to learn how to read from or write to Amazon Aurora by using Data Integration. You can also learn to create an Amazon Aurora connection, develop and run mappings and mapping tasks in Data Integration.

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CHAPTER 1

Amazon Aurora Connector overview

Amazon Aurora Connector enables you to securely read data from Amazon Aurora databases.

You can use Amazon Aurora objects as sources in mappings and mapping tasks.

When you configure field mappings in a mapping task, you can create a lookup to an Amazon Aurora object.

Note: You cannot create an unconnected lookup when you configure field mappings.

Example

You work in the IT department of an international bank and are responsible for storing huge volumes of transaction files in a relational database. You want to store the data in Amazon Aurora database to avoid data loss if the relational database fails. You can use Amazon Aurora Connector to upload huge volumes of transactional files to Amazon Aurora from any location and at any time. You can back up data in Aurora for disaster recovery purposes and retrieve the data later.

Introduction to Amazon Aurora

Amazon Aurora is a cloud-based relational database engine that is compatible with MySQL. You can use the push-button migration tools to convert existing Amazon RDS for MySQL applications to Amazon Aurora. Amazon Aurora offers fault tolerance, scalability, continuous backup, and automatic detection of database crashes. You can use Amazon Aurora to set up and scale MySQL server deployments. Amazon Relational Database Service (RDS) performs the administration tasks for Amazon Aurora.

Amazon Aurora supported objects and task operations

When you use Amazon Aurora Connector, you can include the following Data Integration assets:

- Data transfer task
- Mapping
- Mapping task

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

Administration of Amazon Aurora Connector

If the Secure Agent that runs the Amazon Aurora tasks is on a Linux machine, ensure that the `libssl.so.10` and `libcrypto.so.10` OpenSSL libraries are available and added to the `LD_LIBRARY_PATH` environment variable.

For information on how to configure the `libssl.so.10` and `libcrypto.so.10` OpenSSL libraries, see:

<https://kb.informatica.com/solution/23/Pages/69/571515.aspx?myk=libmaodbc.so>

CHAPTER 2

Amazon Aurora Connections

Create an Amazon Aurora connection to connect to Amazon Aurora and read data from Amazon Aurora. You can use Amazon Aurora connection in mappings and mapping tasks.

Amazon Aurora connections overview

You can create an Aurora connection on the **Connections** page and create a mapping or a mapping task.

Amazon Aurora connection properties

When you set up an Amazon Aurora connection, configure the connection properties.

The following table describes the Amazon Aurora 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	The Amazon Aurora connection type.
Runtime Environment	Name of the runtime environment where you want to run the tasks. You can specify a Secure Agent or a Hosted Agent.
Host	Amazon Aurora server host name. For example, xyzcloud-cluster.cluster-cj8irzt1lmku.us-west-2.rds.amazonaws.com.
Port	Amazon Aurora directory server port number.
Database Name	Name of the Amazon Aurora database.

Property	Description
Code Page	<p>The code page of the database server defined in the connection.</p> <p>Select one of the following code pages:</p> <ul style="list-style-type: none"> - MS Windows Latin 1 - UTF-8 - Shift-JIS - ISO 8859-15 Latin 9 (Western European) - ISO 8859-2 Eastern European - ISO 8859-3 Southeast European - ISO 8859-5 Cyrillic - ISO 8859-9 Latin 5 (Turkish) - IBM EBCDIC International Latin-1
Metadata Advanced Connection Properties	<p>Additional properties for the JDBC driver to fetch metadata from the source.</p> <p>For example, <code>connectTimeout=180000</code></p> <p>For more metadata advanced connection properties, see MariaDB Connector for JDBC.</p>
Run-time Advanced Connection Properties	<p>Additional properties for the ODBC driver required at run time.</p> <p>For example, <code>charset=sjis;readtimeout=180</code></p> <p>For more run-time advanced connection properties, see MariaDB Connector for ODBC.</p>
Username	User name of the Amazon Aurora account.
Password	Password of the Amazon Aurora account.

CHAPTER 3

Mappings and mapping tasks with Amazon Aurora

Use the Data Integration Mapping Designer to create a mapping.

When you create a mapping, you configure a source to represent an Amazon Aurora object. Use the Mapping Task wizard to create a mapping task. The mapping task processes data based on the data flow logic you define in the mapping.

Amazon Aurora sources in mapping

To read data from an Amazon Aurora database, configure an Amazon Aurora object as the Source transformation in a mapping.

Specify the name and description of the Amazon Aurora source. Configure the source, query options, and advanced properties for the source object.

The following table describes the source properties that you can configure for an Amazon Aurora source:

Property	Description
Connection	Name of the Amazon Aurora source connection.
Source Type	Type of the Amazon Aurora source object available. You can choose from the following source types: <ul style="list-style-type: none">- Single- Multiple- Query- Parameter
Object	Name of the Amazon Aurora source object.
Filter	A simple filter includes a field name, operator, and value. Use an advanced filter to define a more complex filter condition, which can include multiple conditions using the AND or OR logical operators.
Select distinct rows only	Select this option to extract only distinct rows.

When you configure a mapping, you can configure the advanced source properties. The following table describes the Amazon Aurora advanced source properties:

Property	Description
Tracing level	Amount of detail that appears in the log for this transformation. You can choose terse, normal, verbose initialization, or verbose data. Default is normal.
Pre SQL	Pre-SQL command to run before reading data from the source.
Post SQL	Post-SQL command to run after writing data to the target.
Output is Deterministic	When you configure this property, the Secure Agent does not stage source data for recovery if transformations in the pipeline always produce repeatable data.
Output is repeatable	When the output is deterministic and the output is repeatable, the Secure Agent does not stage the source data for recovery.

CHAPTER 4

Data type reference

Data Integration uses the following data types in mappings and mapping tasks with Amazon Aurora:

Data type reference overview

Data Integration uses the following data types in mappings and mapping tasks with Amazon Aurora:

Amazon Aurora native data types

Amazon Aurora 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.

Amazon Aurora and transformation data types

The following table lists the Amazon Aurora data types that Data Integration supports and the corresponding transformation data types:

Amazon Aurora Data Type	Transformation Data Type	Description
BIGINT	Bigint	-9,223,372,036,854,775,808 to 9,223,372,036,854,775,807 Precision 19, scale 0
BINARY	Binary	1 to 104,857,600 bytes
BIT	Integer	-2,147,483,648 to 2,147,483,647 Precision 10, scale 0
BLOB	Binary	1 to 104,857,600 bytes

Amazon Aurora Data Type	Transformation Data Type	Description
BOOLEAN	Integer	-2,147,483,648 to 2,147,483,647 Precision 10, scale 0
CHAR	String	1 to 104,857,600 characters
DATE	Date/time	Jan 1, 0001 A.D. to Dec 31, 9999 A.D. (precision to the nanosecond)
DATETIME	Date/time	Jan 1, 0001 A.D. to Dec 31, 9999 A.D. (precision to the nanosecond)
DECIMAL	Decimal	Precision 1 to 28, scale 0 to 28
DOUBLE	Double	Precision 15
ENUM	String	1 to 104,857,600 characters
FLOAT	Double	Precision 15
INT	Integer	-2,147,483,648 to 2,147,483,647 Precision 10, scale 0
LONGBLOB	Binary	1 to 104,857,600 bytes
LONGTEXT	String	1 to 104,857,600 characters
MEDIUMBLOB	Binary	1 to 104,857,600 bytes
MEDIUMTEXT	String	1 to 104,857,600 characters
SET	String	1 to 104,857,600 characters
SMALLINT	Integer	-2,147,483,648 to 2,147,483,647 Precision 10, scale 0
TEXT	String	1 to 104,857,600 characters
TIME	Date/time	Jan 1, 0001 A.D. to Dec 31, 9999 A.D. (precision to the nanosecond)
TINYBLOB	binary	1 to 104,857,600 bytes
TINYINT	Integer	-2,147,483,648 to 2,147,483,647 Precision 10, scale 0
TINYTEXT	String	1 to 104,857,600 characters
VARBINARY	Binary	1 to 104,857,600 bytes
VARCHAR	String	1 to 104,857,600 characters
YEAR	String	1 to 104,857,600 characters

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