[Snowflake] - Query in source does not work

Last updated by | Jackie Huang | Jan 4, 2022 at 12:24 AM PST

Contents

Issue

When customer try to read data from snowflake with query, he may meet error like:

1. SQL compilation error: error line 1 at position 7 invalid identifier 'xxx'
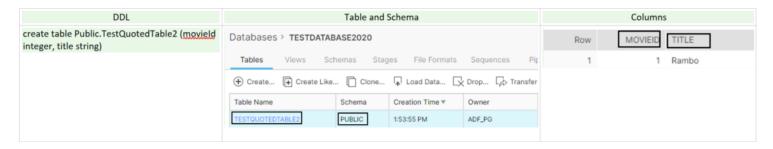2. SQL compilation error: Object 'xxx' does not exist or not authorized.

Root Cause

Customer error with wrong configuration.

Resolution

For snowflake, it applies the following rules for storing identifiers (at creation/definition time) and resolving them (in queries and other SQL statements):

When an identifier (table name, schema name, column name...) is unquoted, it is stored and resolved in uppercase by default, it is case-in-sensitive.

DDL	Table and Schema				Columns		
create table Public.TestQuotedTable2 (movieId integer, title string)	Databases › TESTDATABASE2020				Row	MOVIEID	TITLE
	Tables	Views	Schemas	Stages	File Formats	Sequences	Pi	1	1	Rambo
	⊕ Create...	⊞ Create Like...	▢ Clone...	⬆ Load Data...	⬛ Drop...	⬚ Transfer			
	Table Name		Schema	Creation Time ▼	Owner			
	TESTQUOTEDTABLE2		PUBLIC	1:53:55 PM	ADF_PG			

Because it is case-in-sensitive, so the customer can feel free to use following query to read snowflake data w
   ○ Select MovieID, title from Public.TestQuotedTable2
   ○ Select movieId, title from Public.TESTQUOTEDTABLE2
   ○ Select movieID, TITLE from PUBLIC.TESTQUOTEDTABLE2
   ○ ...

When an identifier (table name, schema name, column name...) is double-quoted, it is stored and resolved exactly as entered, including case, it is case sensitive. For details, please reference public doc: https://docs.snowflake.com/en/sql-reference/identifiers-syntax.html#identifier-requirements ☑.

DDL	Table and Schema	Columns

Because it is case-sensitive of identifier (table name, schema name, column name...) which has lowercase character, so the customer must quote the identifier during data read with query, for example:

○ select **"movieId"**, **"title"** from Public.**"testQuotedTable2"**

If customer meets up error with snowflake query, please ask him to check whether some identifier (table name, schema name, column name...) is case sensitive with following steps:

1. Login snowflake server (https://{accountName}.azure.snowflakecomputing.com/) to check the identifier (table name, schema name, column name...)

2. Create worksheets to test and validate the query

   ○ Use database {databaseName}
   ○ Run query with table, for example: select "movieId", "title" from Public."testQuotedTable2"

3. After the SQL query of snowflake is tested and validated, you can use it in dataflow snowflake source directly.

Additional Information:

- Icm Reference: N/A
- Author: Zhangyi Yu
- Reviewer: Zhangyi Yu; Shawn Xiao
- Keywords: