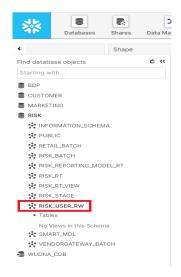
How to load an external file into a table in Snowflake

Determine the schema

To be able to load an external file (CSV, JSON, XML) into Snowflake the user needs to have privileges to insert rows in a table and/or create a table where the new data will be loaded.

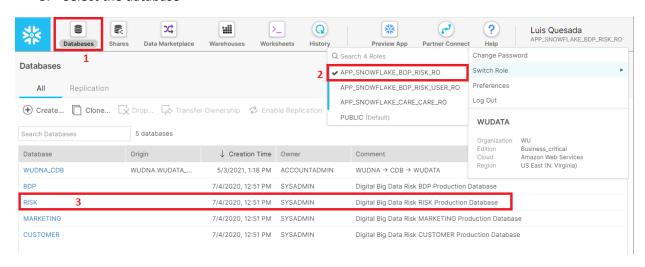
To create a table, the user selects the schema where he has the privileges and can use the web interface or a DDL (Data Definition Language) statement (CREATE TABLE). For the fraud team most user will have access to the RISK_USER_RW schema in the RISK database.



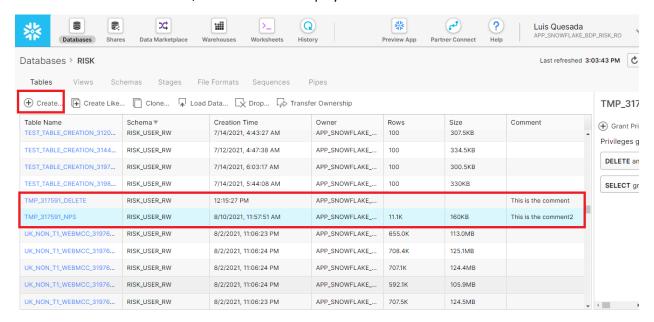
Create a new table (if needed)

The steps to create a new table using the web interface are as follows:

- 1. Go to Databases
- 2. Make sure the selected role has the required privileges
- 3. Select the database



Once the database is selected, a list of tables is displayed. Select Create



It is recommended to define a standard to name the tables. It should include the employee's number to easily identify the owner and an indication if the table is permanent or long term or temporary.

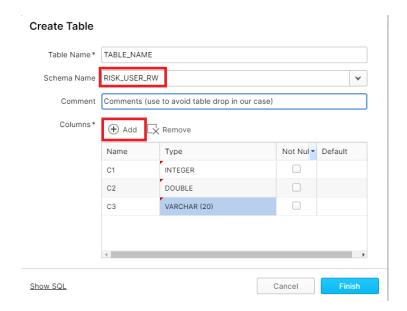
For example:

- TMP_317591_NPS (Temporary from 317591 related to NPS
- PERM 317591 SHAPE (Permanent from 317591 related to SHAPE.

Because the database administrator periodically drops old tables it is important to add a comment to "permanent" tables to prevent those tables from being dropped.

There are several ways to add a comment and those will be explained in the following paragraphs.

After the create option is selected, the following dialog appears, the user will define the name, the comment, and the required columns. It is important to select the right schema where the user has the privileges to create the table.



The user can also create the tables using DDL statements, like this:

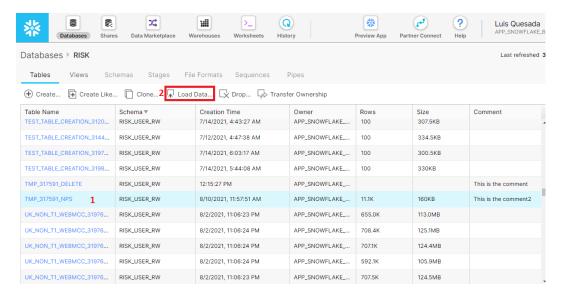
```
CREATE TABLE "RISK"."RISK_USER_RW"."TMP_317591_<DESCRIPTION>"
   (
   C1 <datatype>,
   C2 <datatype>,
   C3 <datatype>,
   C3 <datatype>,
)
COMMENT = 'This is the comment';
```

If the table already exists, it is possible to add the comment using:

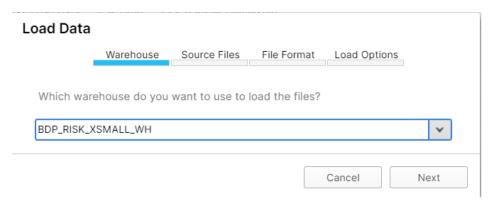
```
ALTER TABLE "RISK"."RISK_USER_RW"."TMP_317591_EXISTING_TABLE"
SET COMMENT = 'his is the comment2';
```

Loading Data

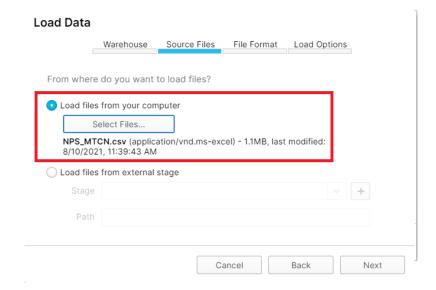
After the table has been created, select the table (highlighted in light blue) (1) and click "Load Data..." (2)



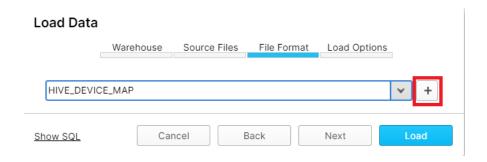
The following dialog appears, it includes several steps. In the first it is possible to select the "warehouse" (assigned computational resources) for the process. Usually, no changes are needed here.



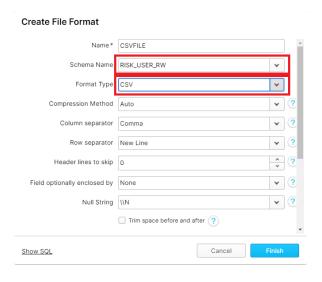
In the following step the user can select the file he/she wants to load



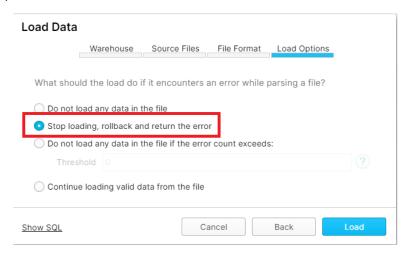
Next, the format of the file is selected. If the CSV format is not included, the user needs to create it the first time it loads the file, clicking the "+" button.



To create a new file format, fill the required information as shown in the following dialog. Select the correct schema and other details of the file.



Finally select the option to determine what to do when an error is found



If the result is successful, the number of rows parsed and loaded will be shown:

