UNLOADING DATA
FROM SNOWFLAKE

- Data Unloading : Overview
- Unloading into a Snowflake Stage
- Unloading into EXTERNAL CLOUD STORAGE (Amazon S3, GCS, AZURE)

Data Unloading : Overview

Overview of Data Unloading

Bulk Unloading Process

Step 1
Use the COPY INTO <location> command to copy the data from the Snowflake database table into one or more files in a Snowflake or external stage.

Step 2
Download the file from the stage:

From a Snowflake stage, use the **GET** command to download the data file(s).

From S3, use the interfaces/tools provided by Amazon S3 to get the data file(s).

From Azure, use the interfaces/tools provided by Microsoft Azure to get the data file(s).

Bulk Unloading Using Queries

Snowflake supports specifying a SELECT statement instead of a table in the COPY INTO <location> command.

Bulk Unloading into Single or Multiple Files

The COPY INTO <location> command provides a copy option (SINGLE) for unloading data into a single file or multiple files.
The default is SINGLE = FALSE (i.e. unload into multiple files).

When unloading data into multiple files, use the MAX_FILE_SIZE copy option to specify the maximum size of each file created.

GET

Downloads data files from one of the following Snowflake stages to a local directory/ folder on a client machine

The command cannot be executed from the Worksheets Worksheet tab page in the Snowflake web interface; instead, use the SnowSQL client to download data files, or check the documentation for the specific Snowflake client to verify support for this command.

The command does not rename files.

Downloaded files are automatically decrypted using the same key that was used to encrypt the file when it was either uploaded (using PUT) or unloaded from a table (using COPY INTO <location>).

Hands On Demo : GET Command

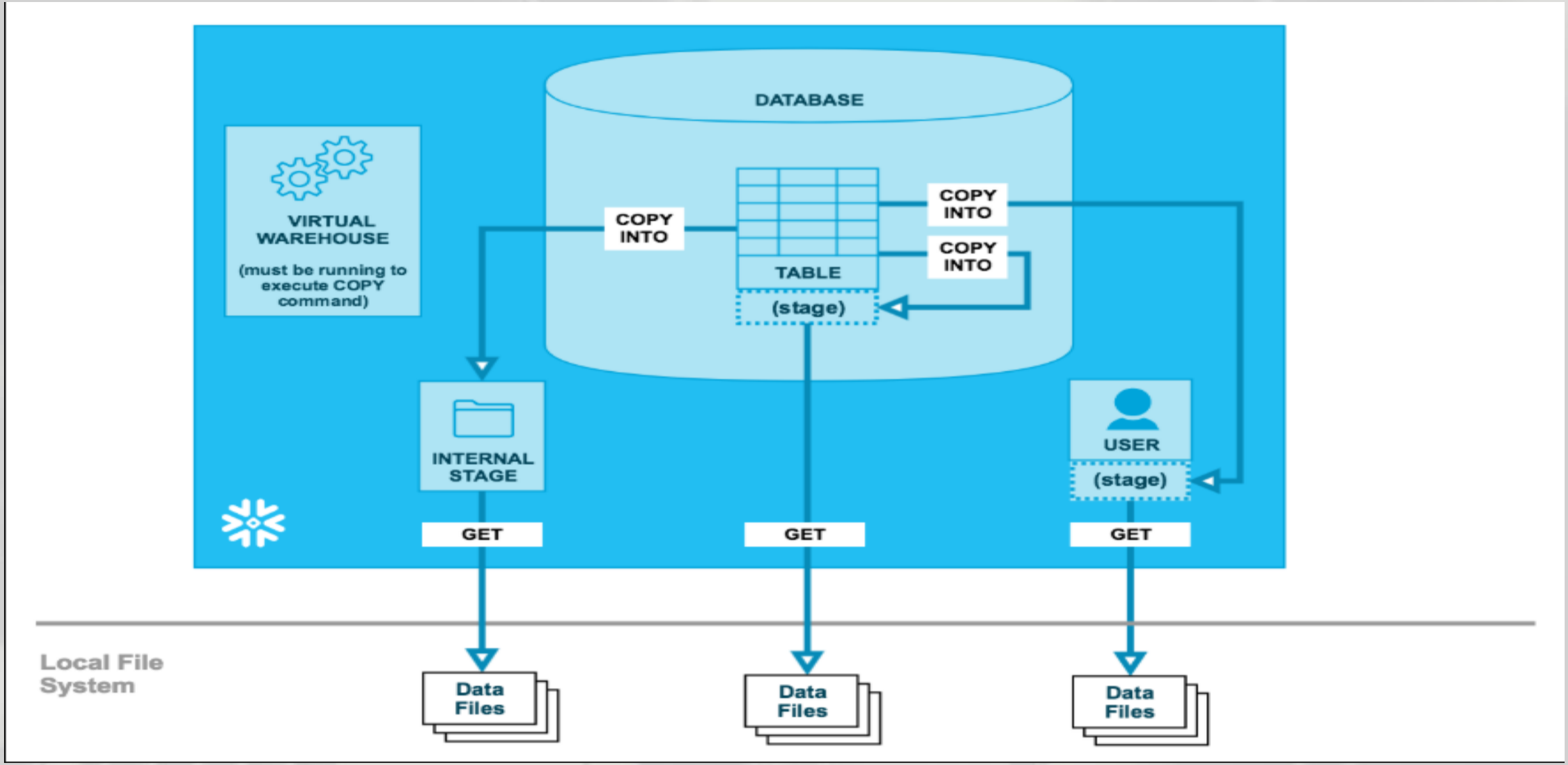
Unloading into a Snowflake Stage

Unloading into a Snowflake Stage

Step 1
Use the COPY INTO <location> command to copy the data from the Snowflake database table into one or more files in a Snowflake stage.

Step 2
Use the GET command to download the data files to your local file system.

Hands On Demo : Unloading into a Snowflake Stage


DATABASE
VIRTUAL WAREHOUSE
(must be running to execute COPY command)
COPY INTO
TABLE
(stage)
COPY INTO
COPY INTO
INTERNAL STAGE
USER
(stage)
GET
GET
GET
Local File System
Data Files
Data Files
Data Files

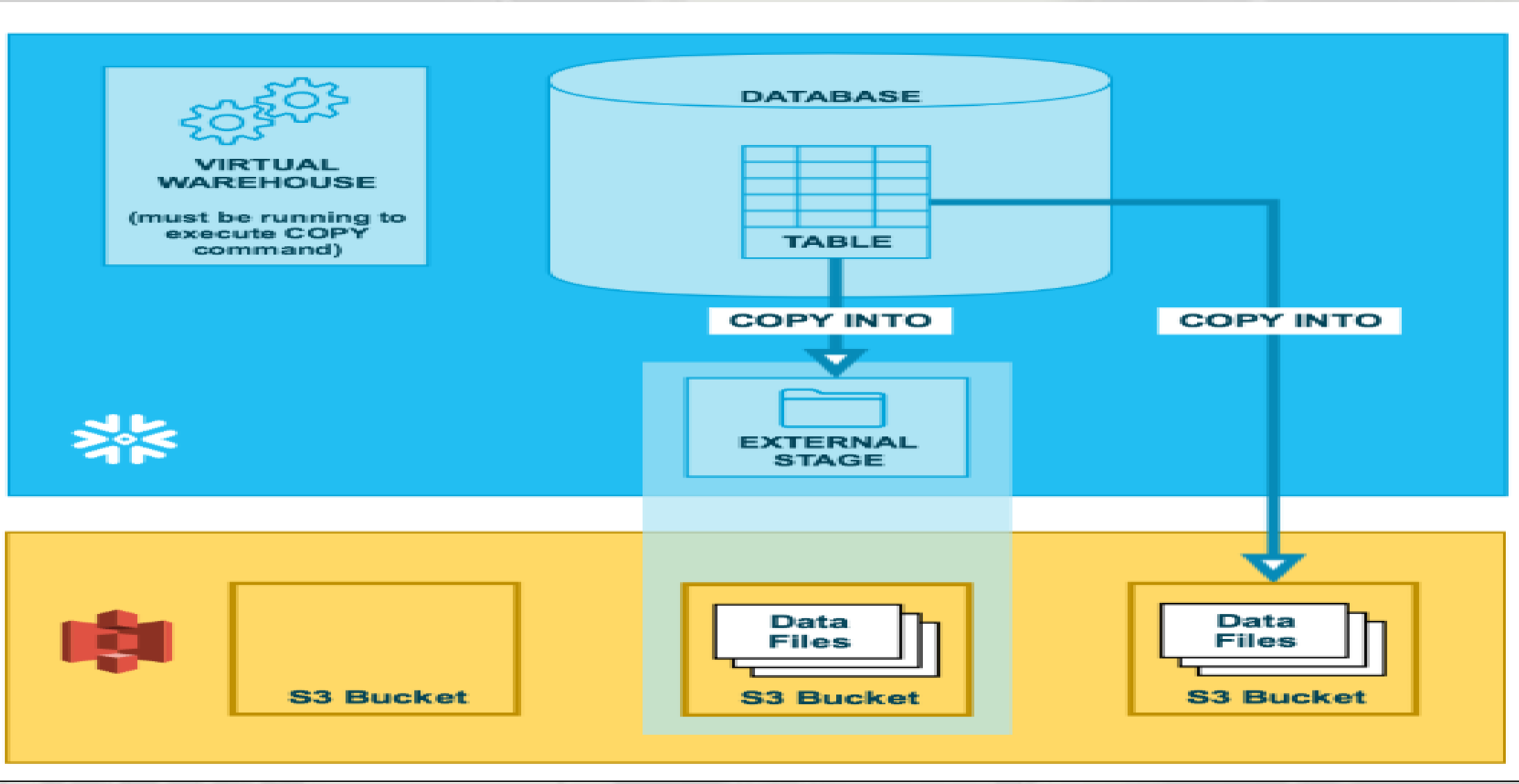
Unloading into EXTERNAL CLOUD STORAGE (Amazon S3, GCS, AZURE)

Unloading into Cloud Storage(S3 bucket/Azure or GCS storage)

Step 1
Use the COPY INTO <location> command to copy the data from the Snowflake database table into one or more files in an S3 bucket/Azure or GCS storage.

Step 2
Use the interfaces/tools provided by Amazon/Azure/GCS to download the files

Hands On Demo : Unloading into Amazon S3


VIRTUAL WAREHOUSE
(must be running to execute COPY command)
DATABASE
TABLE
COPY INTO
COPY INTO
EXTERNAL STAGE
S3 Bucket
Data Files
S3 Bucket
Data Files
S3 Bucket

QUIZ

The COPY INTO <location> command provides a copy option (SINGLE)
for unloading data into a single file or multiple files.
The default is SINGLE = FALSE (i.e. unload into multiple files).

a. True
b. False

Answer :True

@% character combination identifies

a. Table Stage
b. User Stage
c. External stage
d. S3 Storage bucket

Answer : a

To delete files for SF Stage; use

a. rm
b. delete
c. Remove
d. del

Answer : a and c

The GET command does not rename files.

a. TRUE
b. FALSE

Answer : TRUE

Recap

Data Unloading : Overview

Bulk Unloading Process

Step 1

Use the COPY INTO <location> command to copy the data from the Snowflake database table into one or more files in a Snowflake or external stage.

Step 2

Download the file from the stage:

From a Snowflake stage, use the GET command to download the data file(s).

From S3, use the interfaces/tools provided by Amazon S3 to get the data file(s).

From Azure, use the interfaces/tools provided by Microsoft Azure to get the data file(s).

GET : Downloads data files from one of the following Snowflake stages to a local directory/ folder on a client machine

Unloading into a Snowflake Stage

Unloading into EXTERNAL CLOUD STORAGE (Amazon S3, GCS, AZURE)