

A grayscale photograph of a man with dark hair, wearing large over-ear headphones. He is sitting at a desk, looking intently at a laptop screen. His hands are clasped together under his chin, suggesting a state of deep concentration or contemplation. The background is blurred, showing what appears to be an office or studio environment with other people and equipment. Overlaid on the center of the image is the text 'UNLOADING DATA FROM SNOWFLAKE' in a large, white, serif font.

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

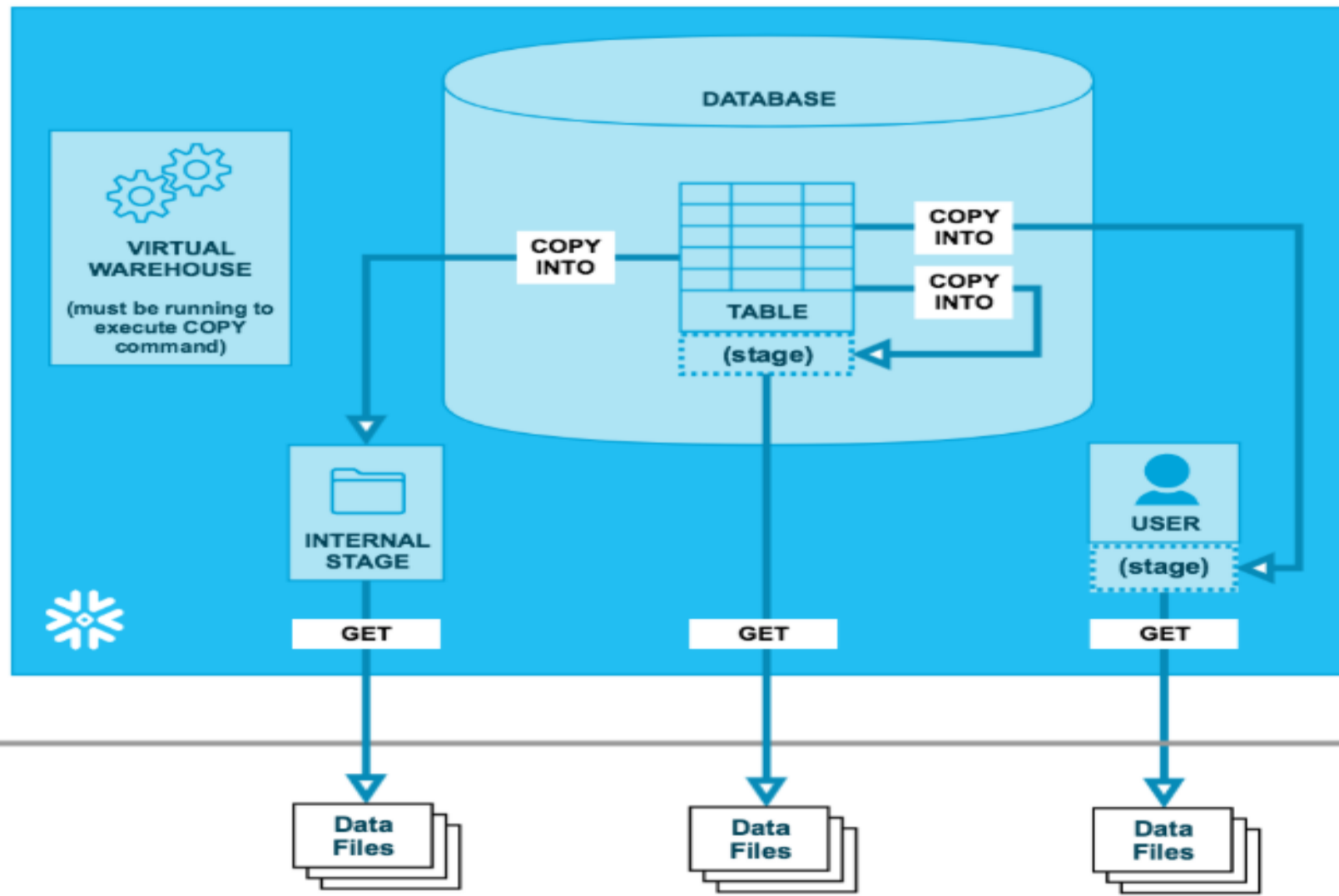
Step 1

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



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)

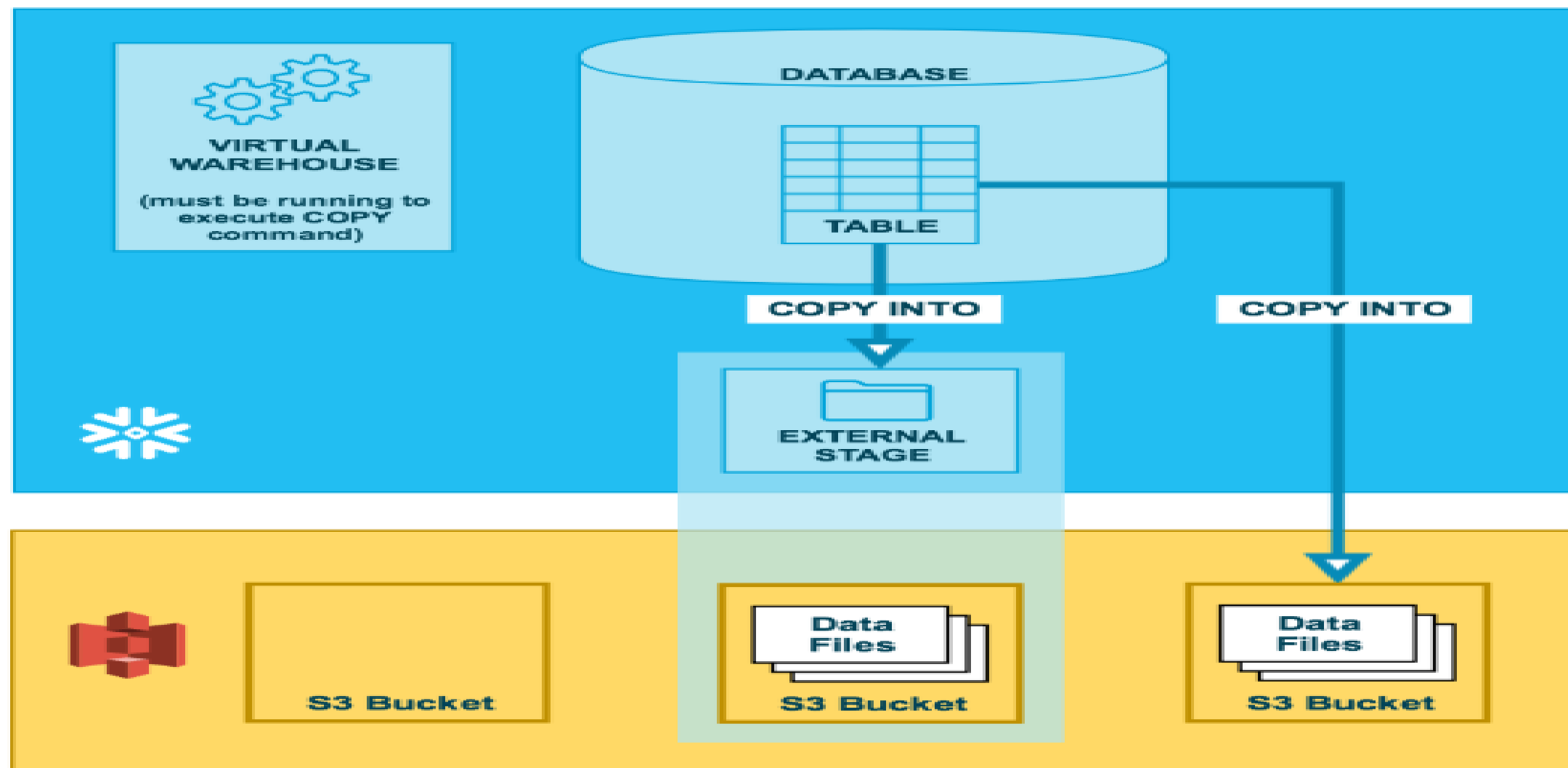
Step 1

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

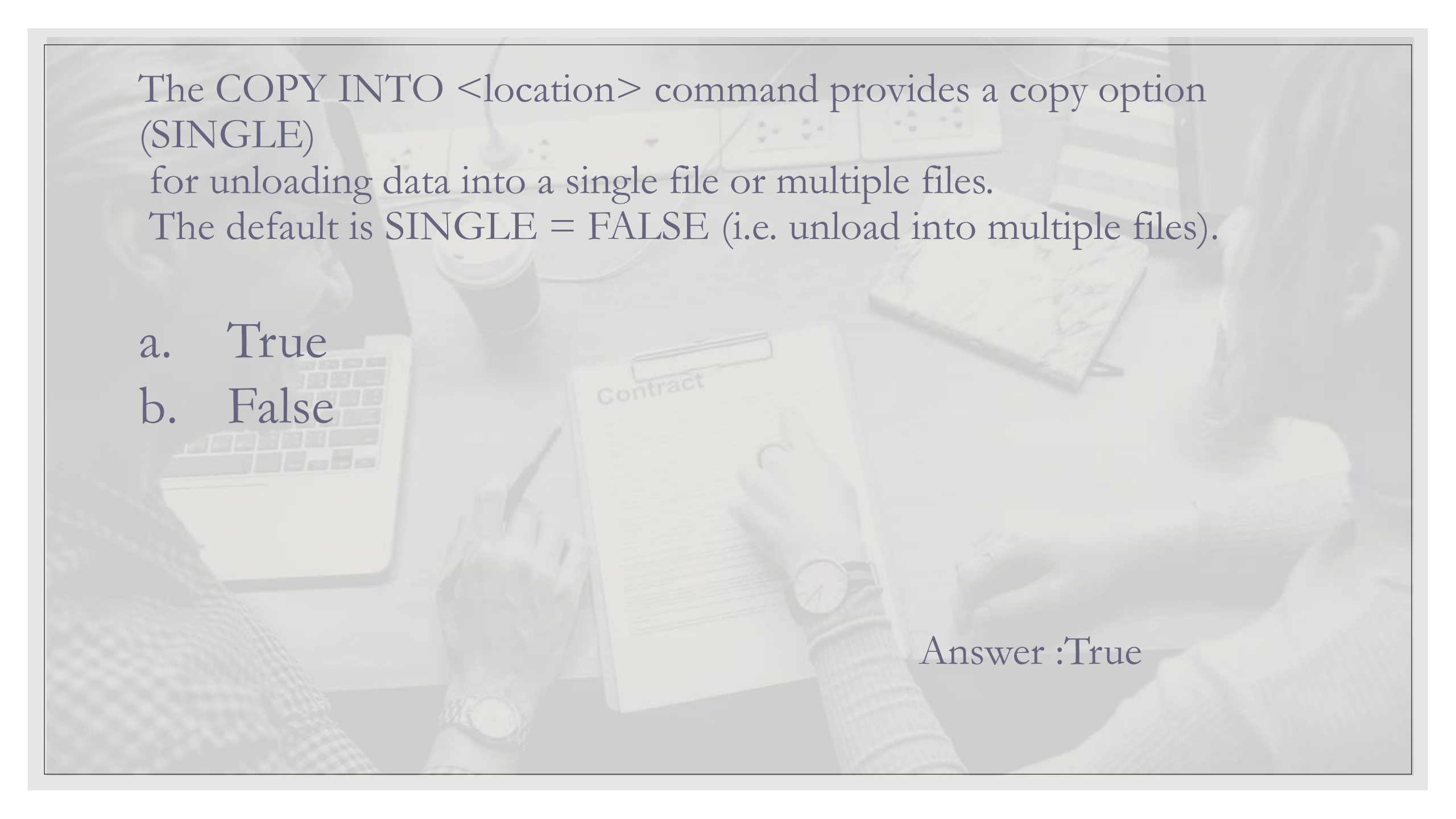
Use the interfaces/tools provided by Amazon/Azure/GCS to download the files

Hands On Demo : Unloading into Amazon S3





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

A background image showing two people sitting at a desk. On the desk, there is a laptop, a coffee cup, a power strip, a notebook, and a document titled 'Contract'. One person is pointing at the document with a pen. The image is faded and serves as a background for the text.

@% 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 background image shows a top-down view of two people sitting at a desk. On the left, a person with glasses is looking at a laptop. On the right, another person is looking at a document. The desk has a laptop, a coffee cup, a notebook, and a document titled 'Contract'.

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)