

Snowflake Stage & SnowSQL

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What is a stage in snowflake?

Snowflake Stages are locations where data files are stored (staged) for loading and unloading data.

There are 2 types of stage in snowflake.

- External Stage
- Internal Stage

In what scenario do you see the need for a project to use an internal stage?

There are organization who use snowflake as their database, however they have no cloud storage account.

For these orgs when they need to bring data files into snowflake, they can place the files inside the snowflake internal stage.

Then use the *COPY* command to load data to the target table.

How can you determine how many files are there in a stage ?

Use the list command, this can be used with internal as well as external stages.

```
list @awsstage
```

```
list @myinternalstage
```

What are the different type of internal stages in snowflake ?

- User Stage
 - Table Stage
 - Named Internal Stage
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- User stage is automatically created when user is created
 - Table stage is automatically created when table is created
 - Named internal stage must be explicitly created and dropped
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- User stage list @~
 - Table stage list @%TableName
 - Named Stage list @myinternalstage

#How can you add(upload), download and remove files from an internal stage?

We can use the
PUT command to upload files to internal stage.
GET command to download files from internal storage.
REMOVE command to remove files from internal storage.

We need to use SnowCLI(SnowSQL) to run these commands.

This example removes from from the table stage movietitles

```
remove @%movietitles
```



There are 100 files available in a on-prem server that you want to upload to snowflake's internal stage, how will you do that ?

We will use SnowCLI/SnowSQL to move the data from the server to snowflake. Key pair authentication will be used to connect to snowflake which removes the need to provide a username and password

Use the PUT command to upload files to internal stage.



Thank you!
