## Procedure to Setup the Connection between S3 and the Snowflake

**Install Required Libraries:** Make sure you have the necessary libraries installed. You can install them using the following command:

pip install snowflake-connector-python boto3

**snowflake-connector-python** is the Snowflake connector, and **boto3** is the AWS SDK for Python.

**Python Script:** Create a Python script to perform the bulk loading. Replace the placeholder values with your actual credentials and details.

import snowflake.connector

import boto3

from snowflake.connector import DictCursor

from snowflake.connector.pandas\_tools import write\_pandas

# Snowflake Connection Details

snowflake\_account = 'your\_account'

snowflake\_user = 'your\_user'

snowflake\_password = 'your\_password'

snowflake\_warehouse = 'your\_warehouse'

snowflake\_database = 'your\_database'

snowflake\_schema = 'your\_schema'

# S3 Connection Details

aws\_access\_key = 'your\_aws\_access\_key'

aws\_secret\_key = 'your\_aws\_secret\_key'

s3\_bucket = 'your\_s3\_bucket'

s3\_key = 'your\_s3\_key'

# Snowflake Connection

con = snowflake.connector.connect(

user=snowflake\_user,

password=snowflake\_password,

account=snowflake\_account,

warehouse=snowflake\_warehouse,

database=snowflake\_database,

schema=snowflake\_schema

)

# S3 Connection

s3 = boto3.client('s3', aws\_access\_key\_id=aws\_access\_key, aws\_secret\_access\_key=aws\_secret\_key)

# COPY Command

copy\_command = f"""

COPY INTO your\_table

FROM s3://{s3\_bucket}/{s3\_key}

CREDENTIALS=(

AWS\_KEY\_ID='{aws\_access\_key}',

AWS\_SECRET\_KEY='{aws\_secret\_key}'

)

FILE\_FORMAT=(FORMAT\_NAME='your\_file\_format')

"""

# Execute COPY Command

cursor = con.cursor(DictCursor)

cursor.execute(copy\_command)

# Fetch Results (Optional)

results = cursor.fetchall()

print(results)

# Close Connections

cursor.close()

con.close()

Replace the placeholder values with your actual credentials, S3 details, table name, and file format details. Ensure that the Snowflake user has the necessary permissions to perform the COPY operation.

**Run the Script:** Execute the script to perform the bulk loading.

python your\_script.py

This script connects to Snowflake, establishes an S3 connection, and then executes the COPY command to load data from S3 into Snowflake. Customize it according to your specific requirements and ensure that your Snowflake and S3 configurations are correctly set up.

**Note : Secret and key are the one given by the organization so I cat disclose it.**