

SNOWFLAKE ASSIGNMENT 2

TASK 3 : Automate Snowpipe with Azure Functions to trigger data loads.

1. Table Definition

```
CREATE OR REPLACE TABLE my_table (  
    id INT,  
    customer STRING,  
    amount FLOAT,  
    date DATE  
);
```

2. File Format

```
CREATE OR REPLACE FILE FORMAT my_csv_format  
TYPE = CSV  
FIELD_DELIMITER = ','  
SKIP_HEADER = 1  
DATE_FORMAT = 'YYYY/MM/DD'; -- matches your CSV
```

3. Stage (with SAS Token)

```
CREATE OR REPLACE STAGE my_stage  
  
URL='azure://sfhexastorage.blob.core.windows.net/snowflakecontainer'  
  
CREDENTIALS=(AZURE_SAS_TOKEN='?sv=2024-11-  
04&ss=bfqt&srt=sco&sp=rwdlacupyx&se=2025-10-17T01:58:38Z&st=2025-10-  
16T17:43:38Z&spr=https&sig=6gdncAJVTEa%2FL7Ejg0HQqKdoi%2BJomxEnZMZsCq  
WzAO8%3D')  
  
FILE_FORMAT = my_csv_format;
```

Make sure your **CSV file is uploaded to this container**.

4. Pipe Definition (Manual Trigger)

```
CREATE OR REPLACE PIPE my_pipe AS  
  
COPY INTO my_table  
  
FROM @my_stage  
  
FILE_FORMAT = my_csv_format  
  
ON_ERROR='CONTINUE';
```

- **Do not use AUTO_INGEST** since we are manually refreshing the pipe.

5. Verify Stage Files

```
LIST @my_stage;
```

- You should see your CSV file listed.
- If **no files appear**, check your SAS token, container path, and that the file is uploaded.

6. Trigger Pipe Manually

```
ALTER PIPE my_pipe REFRESH;
```

- This ingests files from the stage into my_table.

7. Query Table

```
SELECT * FROM my_table;
```

Expected output:



The screenshot shows a SQL query editor with a query and its results. The query is:

```
31 SELECT * FROM my_table,  
32 SELECT $1, $2, $3, $4  
33 FROM @my_stage (FILE_FORMAT => 'my_csv_format')  
34 LIMIT 5;  
35
```

The results are displayed in a table with 5 columns: A \$1, A \$2, A \$3, and A \$4. The table contains 4 rows of data.

| | <u>A \$1</u> | <u>A \$2</u> | <u>A \$3</u> | <u>A \$4</u> |
|---|--------------|--------------|--------------|--------------|
| 1 | 1 | Pooja SRI | 1000 | 2024/01/02 |
| 2 | 2 | Sivasree | 9999 | 2023/02/03 |
| 3 | 3 | Sakthi | 8888 | 2023/03/05 |
| 4 | 4 | Abi | 7777 | 2025/04/05 |

8. Check Copy History (Optional)

```
SELECT *  
  
FROM TABLE(INFORMATION_SCHEMA.COPY_HISTORY(  
  
    table_name => 'MY_TABLE',  
  
    start_time => DATEADD('hour', -24, CURRENT_TIMESTAMP)  
  
));
```

- Confirms which files were ingested by Snowpipe.