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:

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.