

## Data Warehouse Assignment 5

### 1. Set up a variable for Alpha Vantage API key

	Key ↕	Val ↕	Description ↕	Is Encrypted ↕
■ 🔍 📄 🗑️	alpha_vantage_api_key	*****		False
■ 🔍 📄 🗑️	snowflake_account	hpbkadc-xeb96661		False
■ 🔍 📄 🗑️	snowflake_password	*****		False
■ 🔍 📄 🗑️	snowflake_username	AISH911		False

### 2. Set up Snowflake Connection

Edit Connection

Connection Id *	snowflake_conn
Connection Type *	Snowflake <small>Connection Type missing? Make sure you've installed the corresponding Airflow Provider Package.</small>
Description	
Schema	snowflake schema
Login	AISH911
Password	snowflake password
	<pre>{   "insecure_mode": false,   "account": "hpbkadc-xeb96661",   "warehouse": "compute_wh",   "database": "dev" }</pre>

Account	hpbkadc-xeb96661
Warehouse	compute_wh
Database	dev
Region	snowflake hosted region
Role	snowflake role
Private key (Path)	Path of snowflake private key (PEM Format)
Private key (Text)	

3. Capture two screenshot of your Airflow Web U
  - a. Airflow homepage showing the DAG

All 1	Active 1	Paused 0	Running 1	Failed 0	Filter DAGs by tag	Search DAGs	Auto-refresh	Refresh
DAG	Owner	Runs	Schedule	Last Run	Next Run	Recent Tasks	Actions	Links
hw4_stock_dag	airflow	1	@daily	2025-02-26, 17:35:18	2025-02-28, 00:00:00	1	▶ 🔍 🗑️ ⋮	

b. log screen of the DAG

The screenshot displays the Airflow web interface for a DAG named 'hw4\_stock\_dag'. The top navigation bar includes status filters: deferred, failed, queued, removed, restarting, running, scheduled, shutdown, skipped, success, up\_for\_reschedule, up\_for\_retry, upstream\_failed, and no\_status. The main header shows the DAG name, a 'Run' button, and the task name 'load\_to\_snowflake'. Below this, there are buttons for 'Clear task', 'Mark state as...', and 'Filter DAG by task'. The left sidebar shows a task duration bar chart and a list of tasks: 'fetch\_stock\_data', 'transform\_data', and 'load\_to\_snowflake'. The main content area is titled 'Task Tries' and shows two attempts. The first attempt is failed, and the second attempt is successful. The log content for the second attempt is visible, showing the execution of the 'load\_to\_snowflake' task. The log includes the following text:

```
367859631f6d
*** Round local files:
***
/opt/airflow/logs/dag_id-hw4_stock_dag/run_id-scheduled_2025-02-27T00:00:00+00:00/task_id-load_to_snowflake/attempt=2.log
[2025-02-28, 17:36:31 UTC] {local_task_job_runner.py:123} INFO - See task execution logs
[2025-02-28, 17:36:31 UTC] {connection.py:413} INFO - Snowflake Connector for Python Version: 3.12.1, Python Version: 3.12.5, Platform: Linux-5.15.167.4-microsoft-standard-WSL2-x86_64-with-glibc2.36
[2025-02-28, 17:36:31 UTC] {connection.py:1196} INFO - Connecting to GLOBAL Snowflake domain
[2025-02-28, 17:36:31 UTC] {connection.py:1196} INFO - No certificate was found in the local file system. If a certificate is required, it should be provided in the Snowflake configuration file.
[2025-02-28, 17:36:32 UTC] {cursor.py:1156} INFO - Number of results in first chunk: 1
[2025-02-28, 17:37:38 UTC] {cursor.py:1156} INFO - Number of results in first chunk: 1
[2025-02-28, 17:37:38 UTC] {connection.py:788} INFO - closed
[2025-02-28, 17:37:38 UTC] {connection.py:794} INFO - No async queries seem to be running, deleting session
[2025-02-28, 17:37:38 UTC] {python.py:246} INFO - Done. Returned value was: None
[2025-02-28, 17:37:38 UTC] {taskinstance.py:340} INFO - Task task execution logs
```