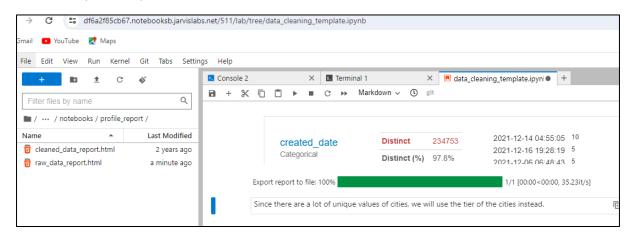
Data Loading

Unzip the Assignment file in Console:

```
root@df6a2f85cb67:/# pwd

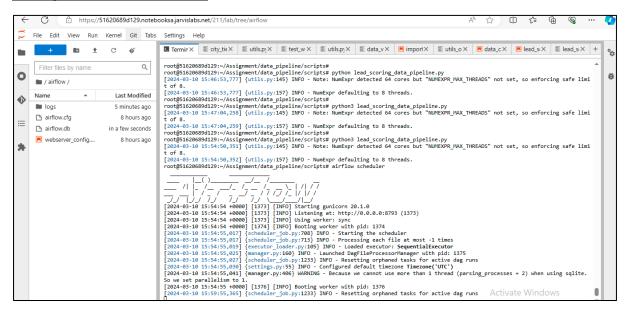
/
root@df6a2f85cb67:/# cd /home
root@df6a2f85cb67:~# unzip Assignment.zip
Archive: Assignment.zip
    creating: Assignment/01_data_pipeline/
    inflating: Assignment/01_data_pipeline/INSTRUCTIONS.txt
    creating: Assignment/01_data_pipeline/notebooks/
    creating: Assignment/01_data_pipeline/notebooks/Data/
    inflating: Assignment/01_data_pipeline/notebooks/Data/cleaned_data.csv
```

Creation of profile report:



Data Pipeline

Starting Airflow in command line:



AirFlow process:

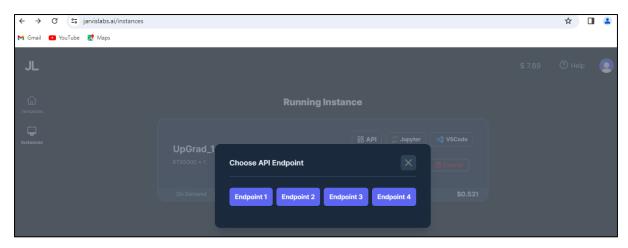
```
root@3b6b5b51627a:~/Assignment/01_data_pipeline/scripts# airflow db init
DB: sqlite:///home/airflow/airflow.db

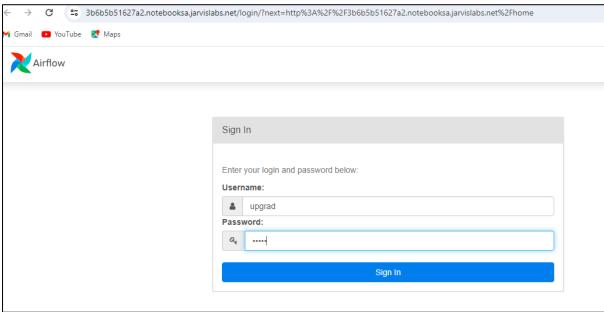
[2024-03-17 04:26:30,094] {db.py:1462} INFO - Creating tables
INFO [alembic.runtime.migration] Context impl SQLiteImpl.
INFO [alembic.runtime.migration] Will assume non-transactional DDL.
WARNI [airflow.models.crypto] empty cryptography key - values will not be stored encrypted.
Initialization done
root@3b6b5b51627a:~/Assignment/01_data_pipeline/scripts# [
```

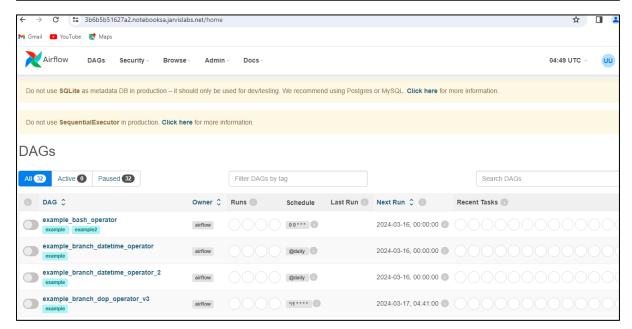
```
root@3b6b5b51627a:~/Assignment/01_data_pipeline/scripts# airflow users create --username upgrad --firstname upgrad --lastname upgrad --role Admin --email shindesagarm@yahoo.co.in --password admin
[2024-03-17 04:33:55,567] {manager.py:817} WARNING - No user yet created, use flask fab command to do it.
[2024-03-17 04:33:55,690] {manager.py:508} INFO - Created Permission View: menu access on List Users
[2024-03-17 04:33:55,705] {manager.py:508} INFO - Added Permission menu access on List Users to role Admin
[2024-03-17 04:33:55 730] {manager.py:508} INFO - Created Permission View: menu access on Security
```

```
[2024-03-17 04:33:57,091] {manager.py:568} INFO - Added Permission can create on XComs to role Admin [2024-03-17 04:33:58,331] {manager.py:213} INFO - Added user upgrad User "upgrad" created with role "Admin" root@3b6b5b51627a:~/Assignment/01_data_pipeline/scripts# []
```

```
root@3b6b5b51627a:~/Assignment/01_data_pipeline/scripts# airflow webserver
                               /7/7/2/2 1/1//
       T././ 7./
Running the Gunicorn Server with:
Workers: 4 sync
Host: 0.0.0.0:6007
Timeout: 120
Logfiles: - -
Access Logformat:
______
[2024-03-17 04:36:48 +0000] [822] [INFO] Starting gunicorn 20.1.0
[2024-03-17 04:36:48 +0000] [822] [INFO] Listening at: http://0.0.0.0:6007 (822)
[2024-03-17 04:36:48 +0000] [822] [INFO] Using worker: sync
[2024-03-17 04:36:48 +0000] [824] [INFO] Booting worker with pid: 824
[2024-03-17 04:36:48 +0000] [825] [INFO] Booting worker with pid: 825
[2024-03-17 04:36:48 +0000] [826] [INFO] Booting worker with pid: 826
[2024-03-17 04:36:48 +0000] [827] [INFO] Booting worker with pid: 827
```







Training Pipeline:

```
root@bd079ac964cf:~/airflow/dags/Lead_scoring_training_pipeline#
root@bd079ac964cf:~/airflow/dags/Lead_scoring_training_pipeline# cp /home/Assignment/training_pipeline/scripts/lead_scoring_t
raining_pipeline.py.
root@bd079ac964cf:~/airflow/dags/Lead_scoring_training_pipeline# cp /home/Assignment/training_pipeline/scripts/constants.py.
root@bd079ac964cf:~/airflow/dags/Lead_scoring_training_pipeline#
root@bd079ac964cf:~/airflow/dags/Lead_scoring_training_pipeline#
root@bd079ac964cf:~/airflow/dags/Lead_scoring_training_pipeline#
root@bd079ac964cf:~/airflow/dags/Lead_scoring_training_pipeline#
root@bd079ac964cf:~/airflow/dags/Lead_scoring_training_pipeline#
toot@bd079ac964cf:~/airflow/dags/Lead_scoring_training_pipeline#
lf drwxr-xr-x 2 root root 34 Mar 17 06:47 __pycache__
drwxr-xr-x 3 root root 69 Mar 17 08:02 data
-rw-r--r- 1 root root 3010 Mar 17 08:06 lead_scoring_training_pipeline.py
-rw-r--r- 1 root root 6379 Mar 17 08:07 constants.py
-rw-r--r- 1 root root 6379 Mar 17 08:07 utils.py
root@bd079ac964cf:~/airflow/dags/Lead_scoring_training_pipeline#
```

Airflow server:

```
root@bd079ac964cf:~/airflow/dags/Lead_scoring_training_pipeline# airflow db init

DB: sqlite:///home/airflow/airflow.db

[2024-03-17 08:13:59,576] {db.py:1462} INFO - Creating tables

INFO [alembic.runtime.migration] Context impl SQLiteImpl.

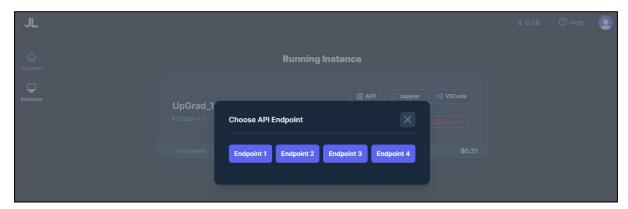
INFO [alembic.runtime.migration] Will assume non-transactional DDL.

WARNI [airflow.models.crypto] empty cryptography key - values will not be stored encrypted.

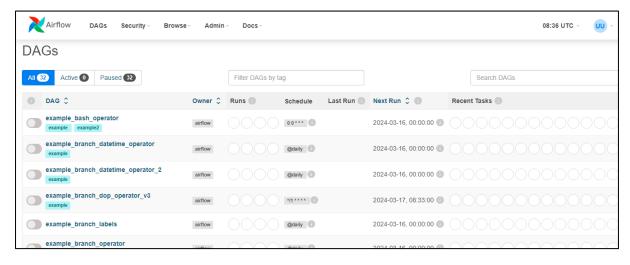
Initialization done

root@bd079ac964cf:~/airflow/dags/Lead_scoring_training_pipeline# []
```

root@bd079ac964cf:~/airflow/dags/Lead_scoring_training_pipeline# airflow users create --username upgrad --firstname upgrad --lastname upgrad --role Admin --email shindesagarm@yahoo.co.in --password admin upgrad already exist in the db







Inference Pipeline:

```
root@bd079ac964cf:~/Assignment/03_inference_pipeline/scripts# cp utils.py /home/airflow/dags/Lead_scoring_inference_pipeline/
root@bd079ac964cf:~/Assignment/03_inference_pipeline/scripts#
root@bd079ac964cf:~/Assignment/03_inference_pipeline/scripts# cp constants.py /home/airflow/dags/Lead_scoring_inference_pipeline/
root@bd079ac964cf:~/Assignment/03_inference_pipeline/scripts#
root@bd079ac964cf:~/Assignment/03_inference_pipeline/scripts#
root@bd079ac964cf:~/Assignment/03_inference_pipeline/scripts#
root@bd079ac964cf:~/Assignment/03_inference_pipeline/scripts#
root@bd079ac964cf:~/Assignment/03_inference_pipeline/scripts# ls -lrt
total 16
-rw-r--r-- 1 root root 2390 Mar 17 08:54 constants.py
-rw-r--r-- 1 root root 6414 Mar 17 09:00 lead_scoring_inference_pipeline.py
root@bd079ac964cf:~/Assignment/03_inference_pipeline/scripts#
root@bd079ac964cf:~/Assignment/03_inference_pipeline/scripts#
root@bd079ac964cf:~/Assignment/03_inference_pipeline/scripts#
root@bd079ac964cf:~/airflow/dags/Lead_scoring_inference_pipeline# ls -lrt
total 16
-rw-r--r-- 1 root root 6414 Mar 17 09:02 utils.py
-rw-r--r-- 1 root root 6414 Mar 17 09:03 constants.py
-rw-r--r-- 1 root root 2541 Mar 17 09:03 constants.py
-rw-r--r-- 1 root root 2641 Mar 17 09:03 constants.py
-rw-r--r-- 1 root root 2541 Mar 17 09:03 constants.py
-rw-r--r-- 1 root root 2641 Mar 17 09:03 constants.py
-rw-r--r-- 1 root root 2641 Mar 17 09:03 constants.py
-rw-r--r-- 1 root root 2641 Mar 17 09:03 constants.py
-rw-r--r-- 1 root root 2641 Mar 17 09:03 constants.py
-rw-r--r-- 1 root root 2641 Mar 17 09:03 constants.py
-rw-r--r-- 1 root root 2641 Mar 17 09:03 constants.py
-rw-r--r-- 1 root root 2641 Mar 17 09:03 constants.py
-rw-r--r-- 1 root root 2641 Mar 17 09:03 lead_scoring_inference_pipeline.py
root@bd079ac964cf:~/airflow/dags/Lead_scoring_inference_pipeline.py
root@bd079ac964cf:~/airflow/dags/Lead_scoring_inference_pipeline.py
```

