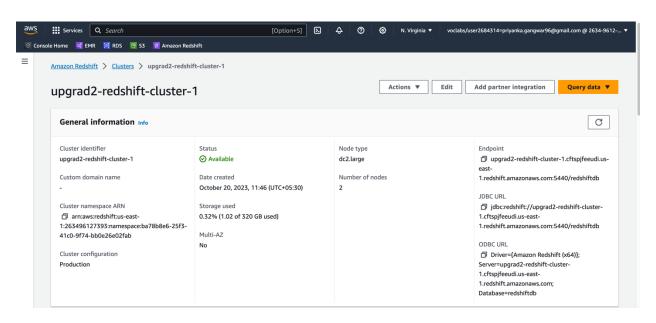
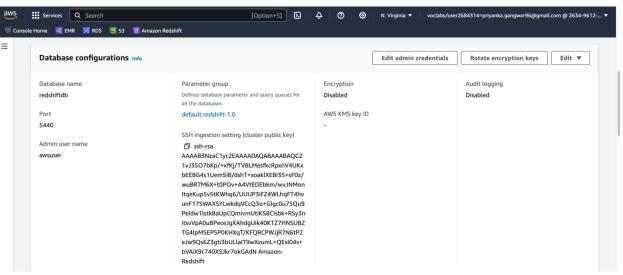




Creation of a Redshift Cluster

Screenshots of the configuration of the Redshift cluster that you have created:





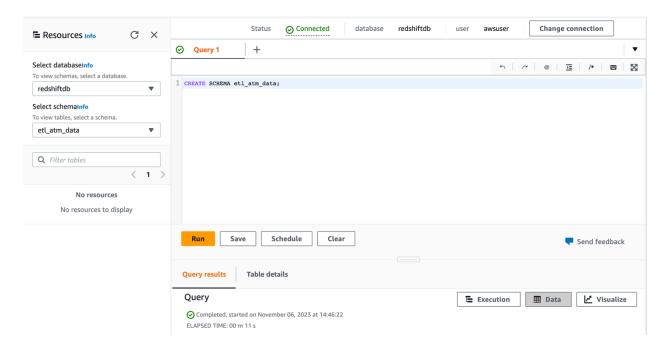




Setting up a database in the Redshift cluster and running queries to create the dimension and fact tables

Query to create schema in Redshift for the atm data set

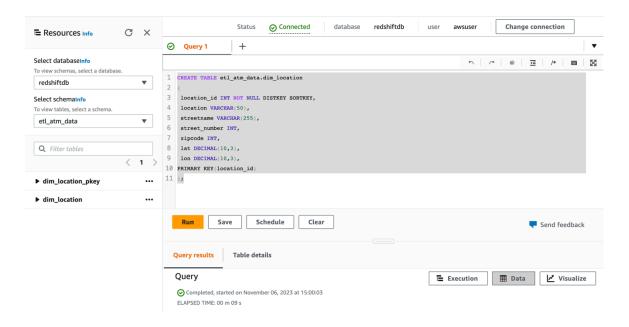
<Query> CREATE SCHEMA etl_atm_data;



 Queries to create the various dimension and fact tables with appropriate primary and foreign keys:



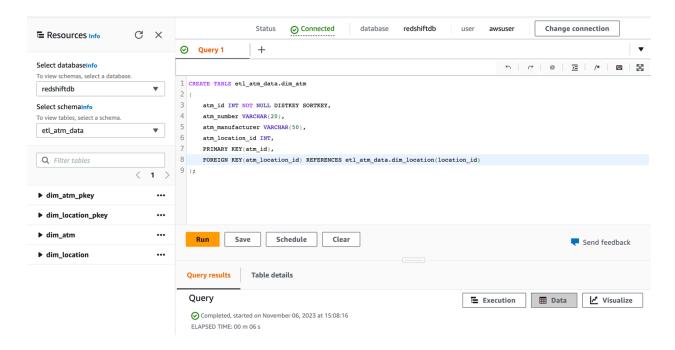




<Query 2>



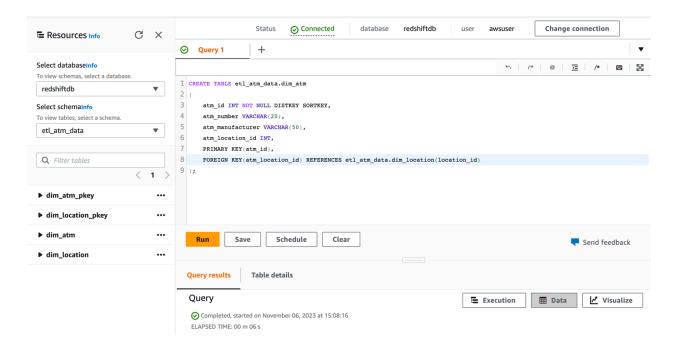




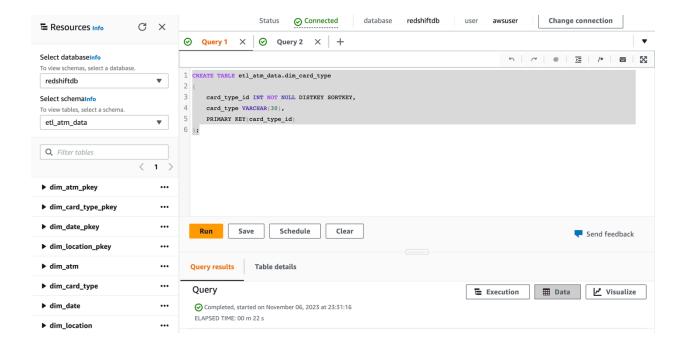
<Query 3>







<Query 4>



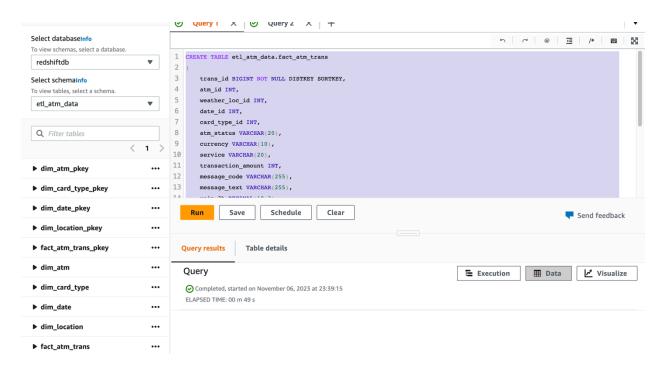




```
<Query 5>
      CREATE TABLE etl_atm_data.fact_atm_trans
            trans_id BIGINT NOT NULL DISTKEY SORTKEY,
            atm_id INT,
            weather loc id INT,
            date_id INT,
            card_type_id INT,
            atm_status VARCHAR(20),
            currency VARCHAR(10),
            service VARCHAR(20),
            transaction_amount INT,
            message_code VARCHAR(255),
            message_text VARCHAR(255),
            rain_3h DECIMAL(10,3),
            clouds_all INT,
            weather_id INT,
            weather_main VARCHAR(50),
            weather_description VARCHAR(255),
            PRIMARY KEY(trans_id),
            FOREIGN KEY(weather_loc_id) REFERENCES
etl_atm_data.DIM_LOCATION(location_id),
            FOREIGN KEY(atm_id) REFERENCES etl_atm_data.DIM_ATM(atm_id),
            FOREIGN KEY(date_id) REFERENCES etl_atm_data.DIM_DATE(date_id),
            FOREIGN KEY(card_type_id) REFERENCES
etl_atm_data.DIM_CARD_TYPE(card_type_id)
      );
```







Loading data into a Redshift cluster from Amazon S3 bucket

 Queries to copy the data from S3 buckets to the Redshift cluster in the appropriate tables

<Query 1>

COPY etl_atm_data.dim_location FROM

's3://atmdatasetforetl/dim_location/part-00000-fb88c980-29d3-4103-a2d7-f6f95fdeed26-c000.csv'

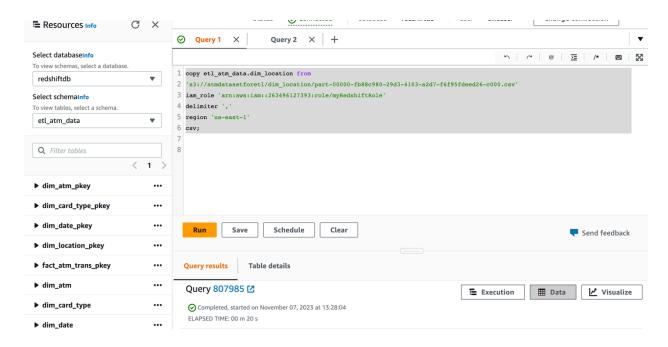
IAM_ROLE 'arn:aws:iam::263496127393:role/myRedshiftRole'

DELIMITER ','

REGION 'us-east-1'







<Query 2>

COPY etl_atm_data.dim_atm FROM

's3://atmdatasetforetl/dim_atm/part-00000-7518197d-f887-4fd6-8869-2f52abac1728-c000.csv'

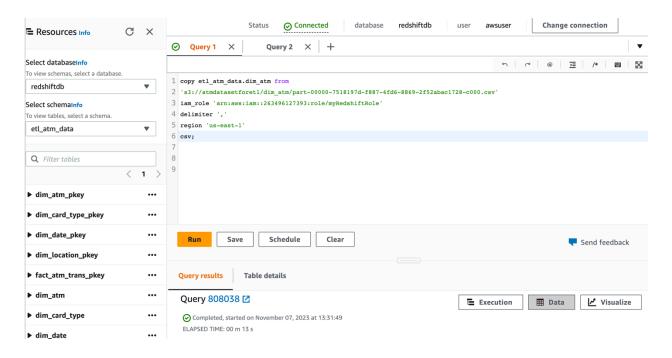
IAM_ROLE 'arn:aws:iam::263496127393:role/myRedshiftRole'

DELIMITER ','

REGION 'us-east-1'







<Query 3>

COPY etl_atm_data.dim_date FROM

's3://atmdatasetforetl/dim_date/part-00000-9f639a89-2041-4ba7-822b-2f87aefb54c3-c000.csv'

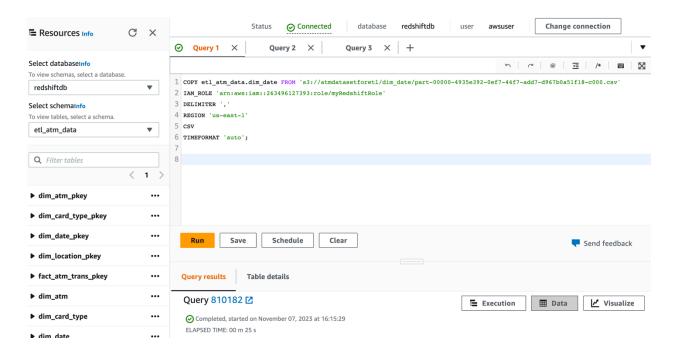
IAM_ROLE 'arn:aws:iam::263496127393:role/myRedshiftRole'

DELIMITER ','

REGION 'us-east-1'







<Query 4>

COPY etl_atm_data.dim_card_type FROM

's3://atmdatasetforetl/dim_card_type/part-00000-abef2a30-ae47-4913-a737-

8109ec1af6a1-c000.csv'

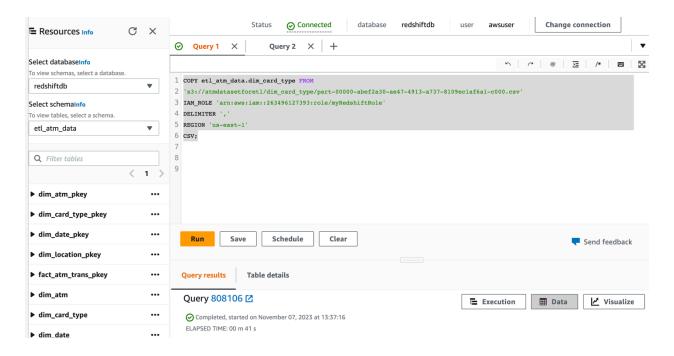
IAM_ROLE 'arn:aws:iam::263496127393:role/myRedshiftRole'

DELIMITER ','

REGION 'us-east-1'







<Query 5>

COPY etl_atm_data.fact_atm_trans FROM

's3://atmdatasetforetl/fact_atm_trans/part-00000-60b4e63b-70ac-489d-b7c7-

5a605bab12db-c000.csv'

IAM_ROLE 'arn:aws:iam::263496127393:role/myRedshiftRole'

DELIMITER ','

REGION 'us-east-1'





