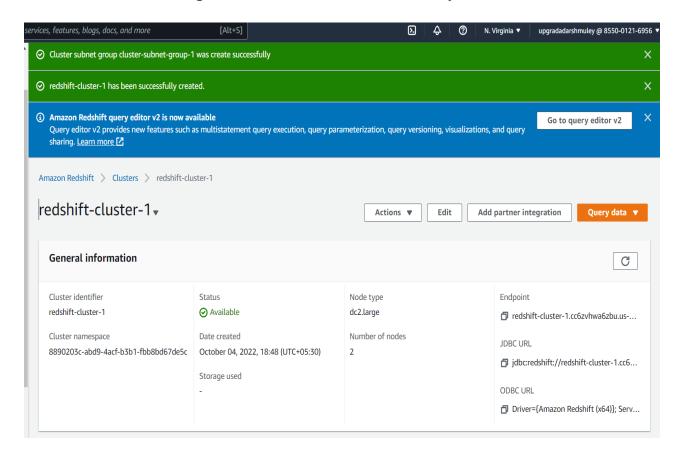




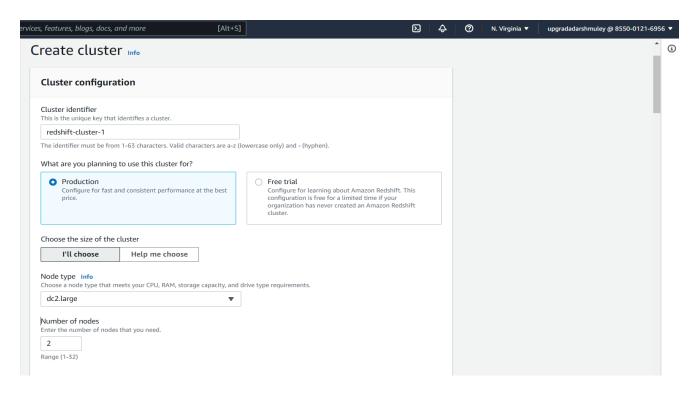
Creation of a Redshift Cluster

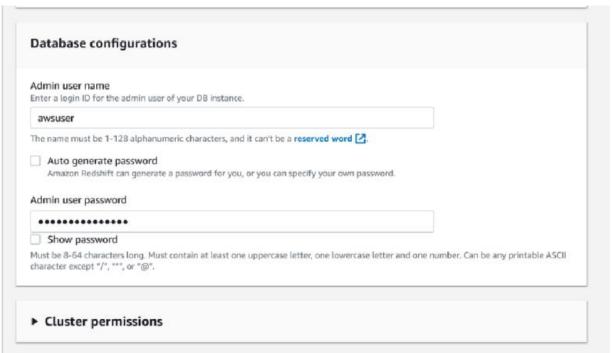
Screenshots of the configuration of the Redshift cluster that you have created:









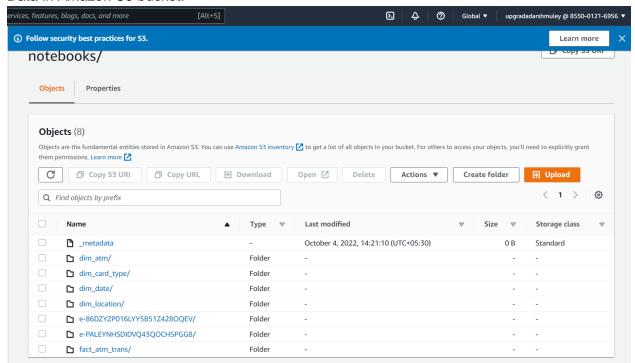






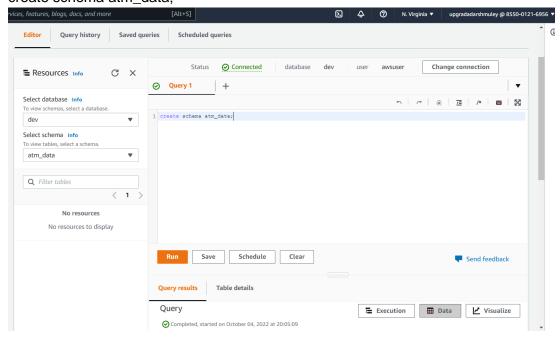
Setting up a database in the Redshift cluster and running queries to create the dimension and fact tables

Data in Amazon S3 bucket:



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

create schema atm data;



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```
create table atm_data.DIM_LOCATION
location_id int not null DISTKEY SORTKEY,
location varchar(50),
streetname varchar(255),
street_number int,
zipcode int,
lat decimal(10,3),
Ion decimal(10,3),
PRIMARY KEY(location_id)
 );
                                                                               4
                                                                                    @
                                                                                                    upgradadarshmuley @ 8550-0121-6956
                                                                                         N. Virginia ▼
          Query history Saved queries
                                     Scheduled queries
                                                                                                                            (i)

    ○ Connected

                                                             database
                                                                                               Change connection
                                                                                   awsuser
■ Resources Info
                              ⊘ Query 1
Select database Info
                                                                                           C @ \ 🗏 | /* | 📟 | 🔀
To view schemas, select a database.
                              1 create table atm_data.DIM_LOCATION
Select schema Info
                              3 location_id int not null DISTKEY SORTKEY,
                              4 location warchar(50),
To view tables, select a schema.
                                streetname varchar(255),
 public
                             6 street number int,
                                zipcode int,
                                lat decimal(10,3),
 Q Filter tables
                                lon decimal(10,3),
                             10 PRIMARY KEY(location_id)
                             11 );
         No resources
      No resources to display
                                                  Schedule
                                                              Clear
                                                                                                    Send feedback
                                Query
                                                                                             ⊞ Data

✓ Visualize

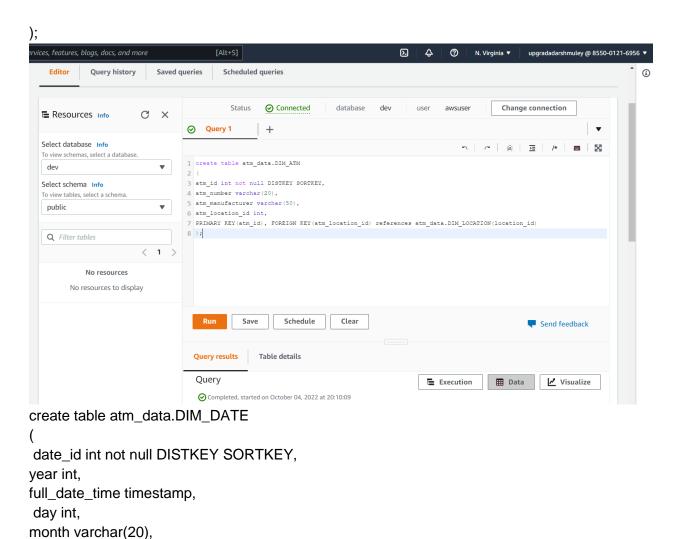
                                                                               E Execution
                                Ocmpleted, started on October 04, 2022 at 20:08:46
create table atm_data.DIM_ATM
atm id int not null DISTKEY SORTKEY,
atm_number varchar(20),
atm_manufacturer varchar(50),
atm location id int,
PRIMARY KEY(atm_id), FOREIGN KEY(atm_location_id) references
atm_data.DIM_LOCATION(location_id)
```



hour int,

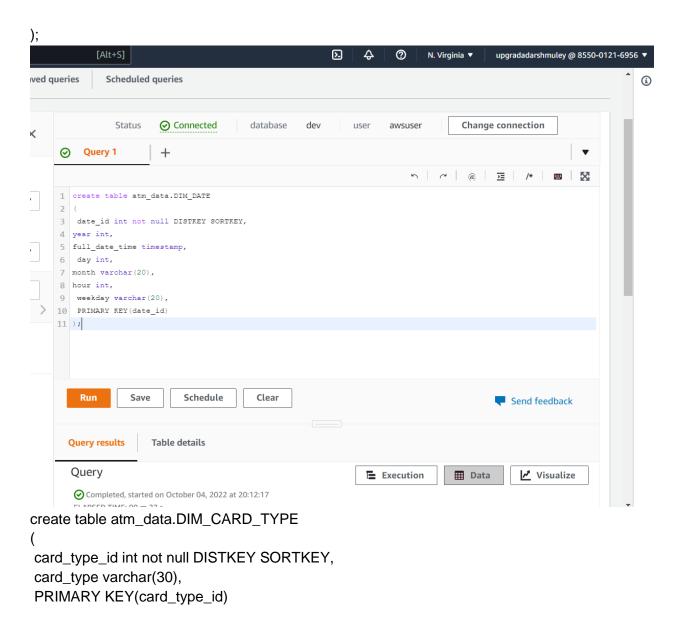
weekday varchar(20), PRIMARY KEY(date_id)





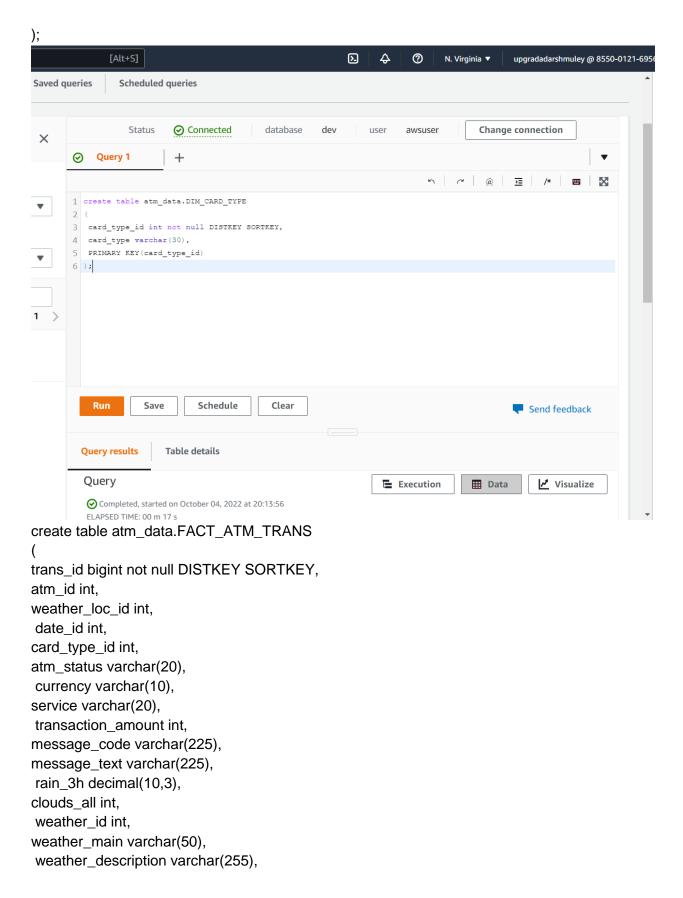








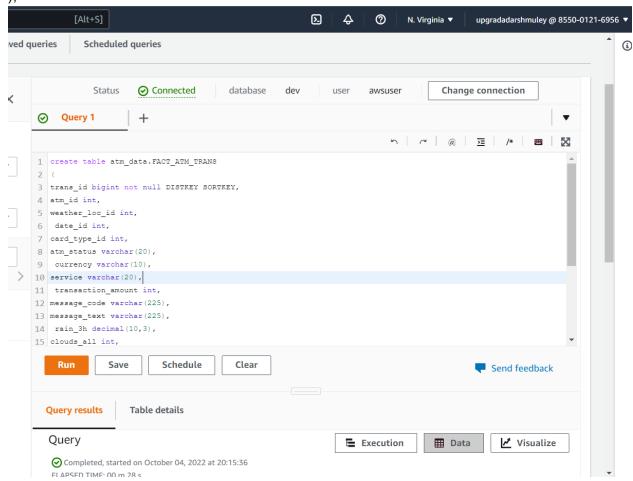








PRIMARY KEY(trans_id),
FOREIGN KEY(weather_loc_id) references atm_data.DIM_LOCATION(location_id),
FOREIGN KEY(atm_id) references atm_data.DIM_ATM (atm_id),
FOREIGN KEY(date_id) references atm_data.DIM_DATE(date_id),
FOREIGN KEY(card_type_id) references atm_data.DIM_CARD_TYPE(card_type_id)):



Loading data into a Redshift cluster from Amazon S3 bucket

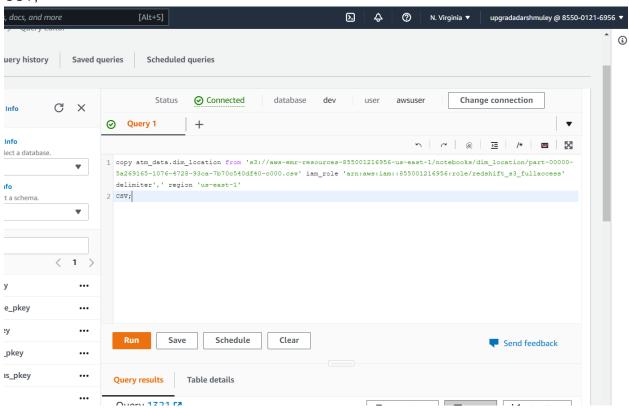
Queries to copy the data from S3 buckets to the Redshift cluster in the appropriate tables

copy atm_data.dim_location from 's3://aws-emr-resources-855001216956-us-east-1/notebooks/dim_location/part-00000-5a269165-1076-4728-93ca-7b70c540df40-c000.csv' iam_role 'arn:aws:iam::855001216956:role/redshift_s3_fullaccess' delimiter',' region 'us-east-1'





CSV;

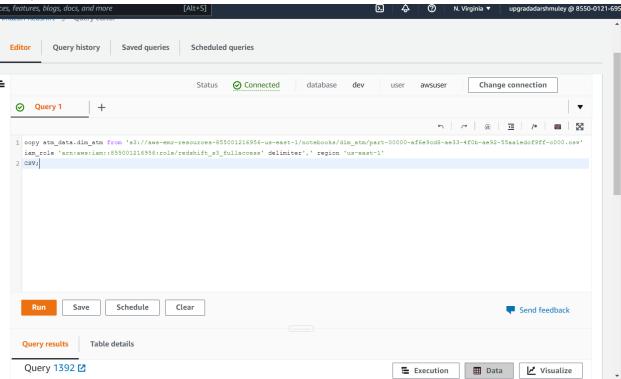






copy atm_data.dim_atm from 's3://aws-emr-resources-855001216956-us-east-1/notebooks/dim_atm/part-00000-af6e9cd8-ae33-4f0b-ae92-55aa1edcf9ff-c000.csv' iam_role 'arn:aws:iam::855001216956:role/redshift_s3_fullaccess' delimiter',' region 'us-east-1'

CSV;

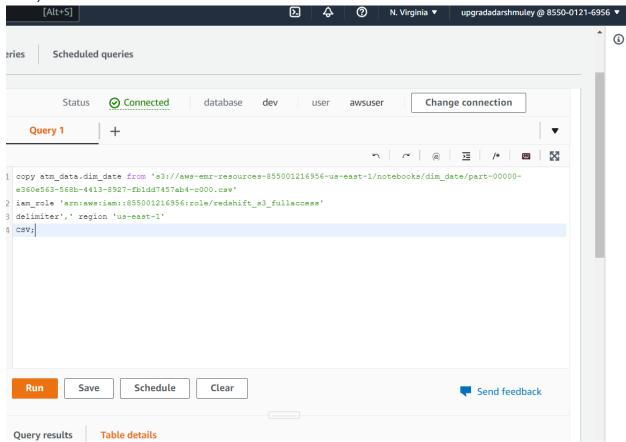


copy atm_data.dim_date from 's3://aws-emr-resources-855001216956-us-east-1/notebooks/dim_date/part-00000-e360e563-568b-4413-8927-fb1dd7457ab4-c000.csv' iam_role 'arn:aws:iam::855001216956:role/redshift_s3_fullaccess' delimiter',' region 'us-east-1'





CSV:



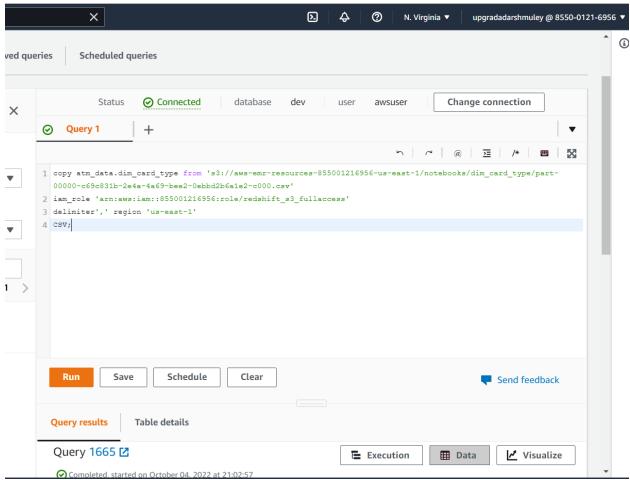
copy atm_data.dim_card_type from 's3://aws-emr-resources-855001216956-us-east-1/notebooks/dim_card_type/part-00000-c69c831b-2e4a-4a69-bee2-0ebbd2b6a1e2-c000.csv'

iam_role 'arn:aws:iam::855001216956:role/redshift_s3_fullaccess' delimiter',' region 'us-east-1'





CSV;



copy atm_data.fact_atm_trans from 's3://aws-emr-resources-855001216956-us-east-1/notebooks/fact_atm_trans/part-00000-cd7eecd8-2ee0-4d15-adc4-07fceeff0823-c000.csv' iam_role 'arn:aws:iam::855001216956:role/redshift_s3_fullaccess' delimiter',' region 'us-east-1' CSV;





