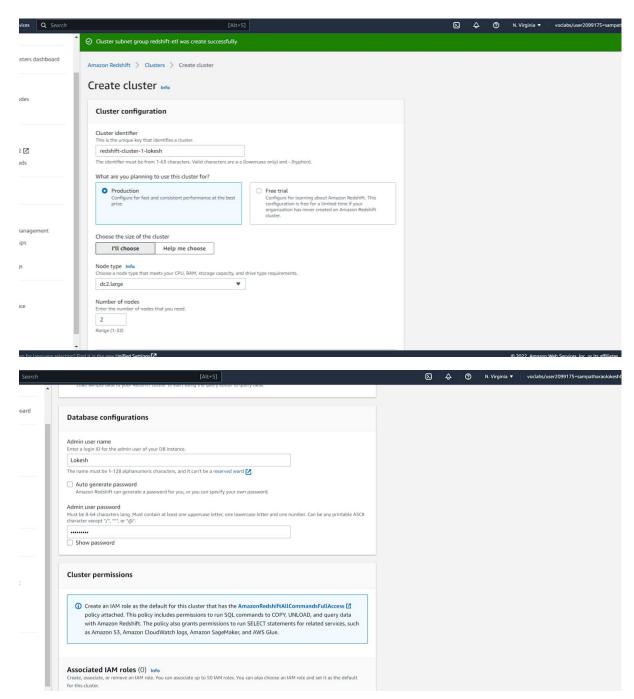
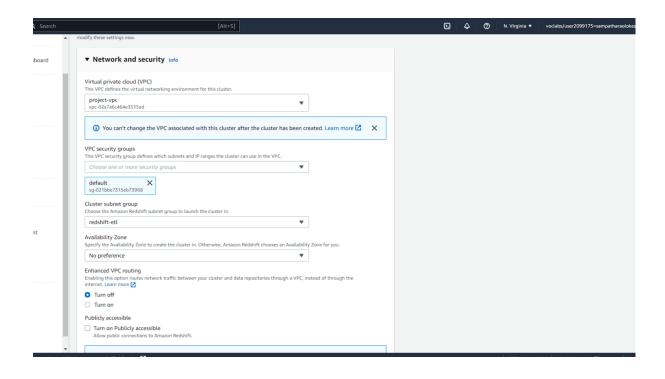
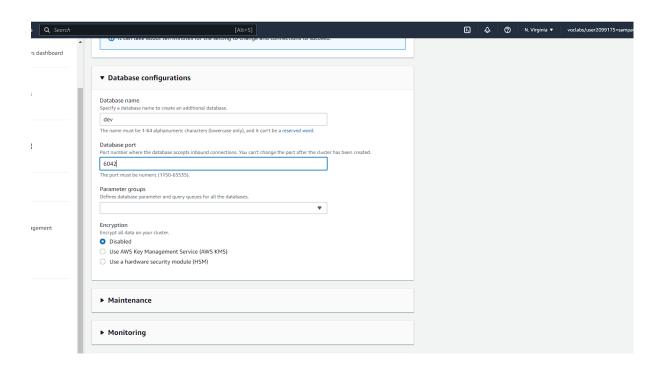
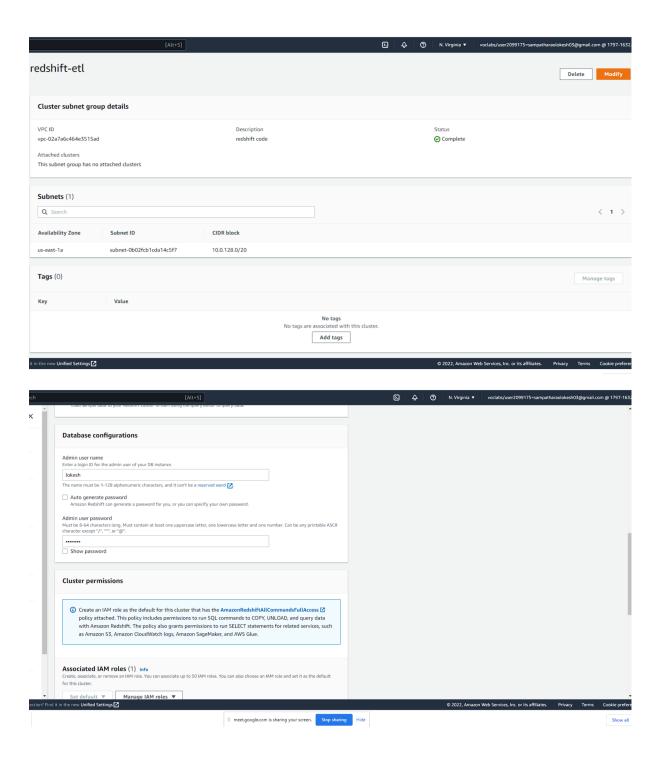
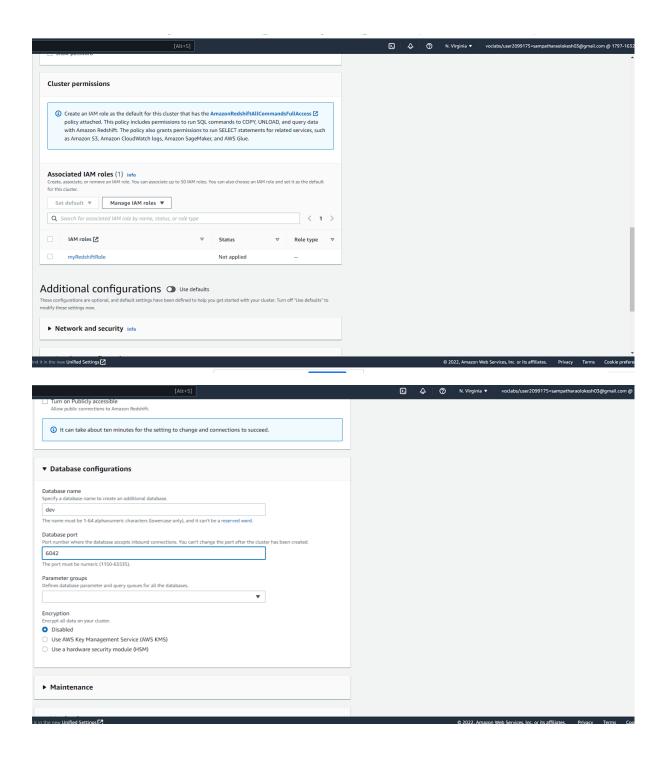
Redshift Cluster Creation:-



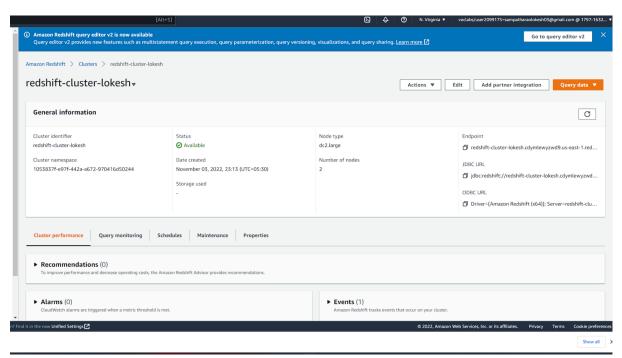






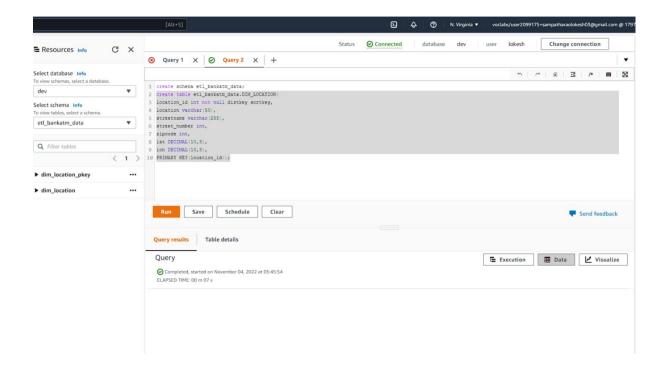


Redshift Cluster creation and queries to create dimension and fact tables:-



1st and 2nd query):create schema etl_bankatm_data;
create table etl_bankatm_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),
lon DECIMAL(10,3),
PRIMARY KEY(location_id));

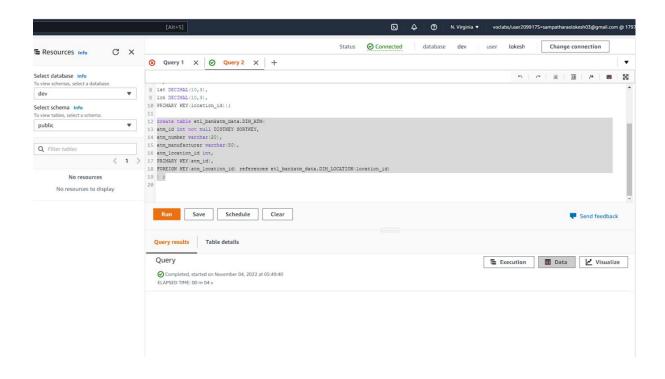
Screenshot of 1st and 2nd query)



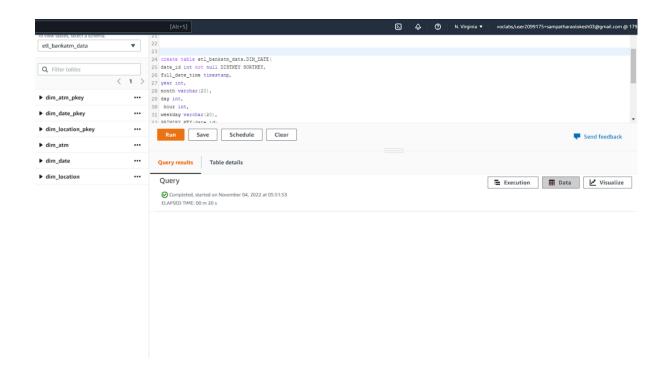
3rd query:

```
create table etl_bankatm_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
etl_bankatm_data.DIM_LOCATION(location_id)
);
```

Screenshot of 3rd query



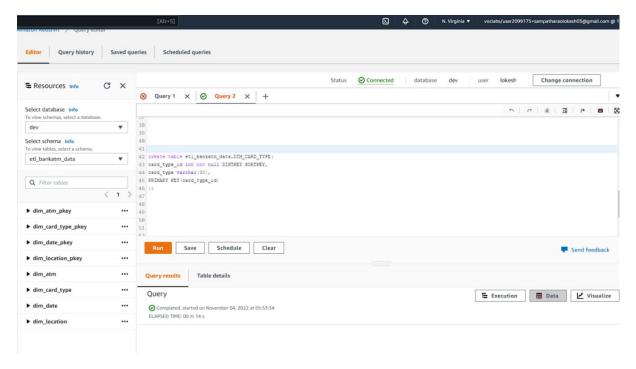
```
4th query:
create table etl_bankatm_data.DIM_DATE(
date_id int not null DISTKEY SORTKEY,
full_date_time timestamp,
year int,
month varchar(20),
day int,
hour int,
weekday varchar(20),
PRIMARY KEY(date_id)
);
Screenshot:
```



5th query:

create table etl_bankatm_data.DIM_CARD_TYPE(
card_type_id int not null DISTKEY SORTKEY,
card_type varchar(30),
PRIMARY KEY(card_type_id)
);

Screenshot:

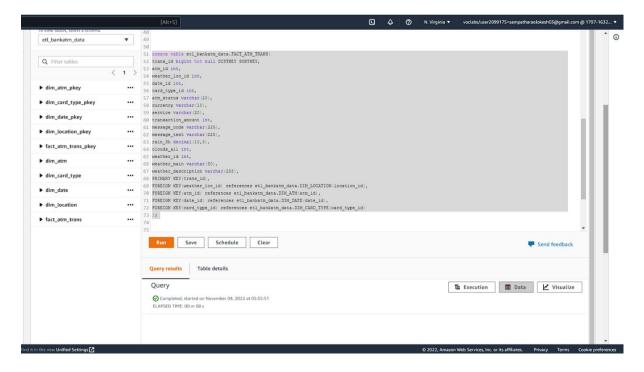


6th query:

```
create table etl_bankatm_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(225),
message_text varchar(225),
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_bankatm_data.DIM_LOCATION(location_id),
FOREIGN KEY(atm_id) references
etl_bankatm_data.DIM_ATM(atm_id),
FOREIGN KEY(date_id) references
etl_bankatm_data.DIM_DATE(date_id),
FOREIGN KEY(card_type_id) references
etl_bankatm_data.DIM_CARD_TYPE(card_type_id)
);
```

Screenshot:



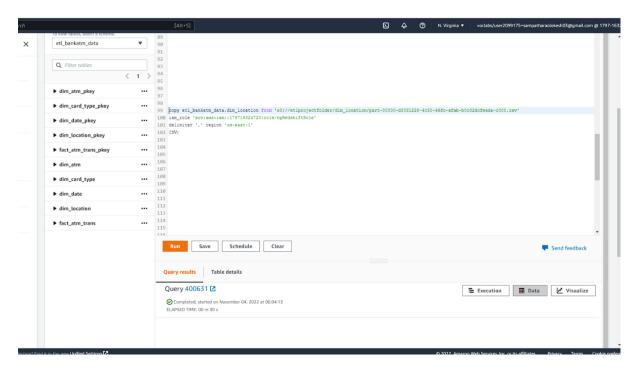
Queries to load data into Redshift Cluster from Amazon S3 bucket:

1st query:-copy etl_bankatm_data.dim_location from 's3://etlprojectfolder/dim_location/part-00000-d3081228-4c50-46fc-afab-b0c32dcfeada-c000.csv'

iam_role 'arn:aws:iam::179716324723:role/myRedshiftRole' delimiter ',' region 'us-east-1'

CSV;

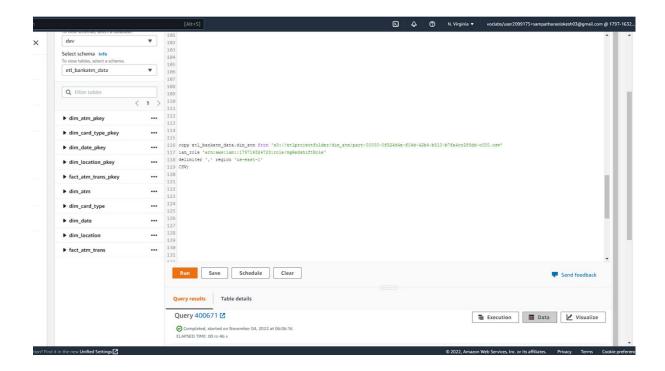
Screenshot:-



2nd query:-

copy etl_bankatm_data.dim_atm from 's3://etlprojectfolder/dim_atm/part-00000-0f524d4e-f04d-42b4-b510-b7fa4cc285dd-c000.csv'

iam_role 'arn:aws:iam::179716324723:role/myRedshiftRole' delimiter ',' region 'us-east-1' CSV;

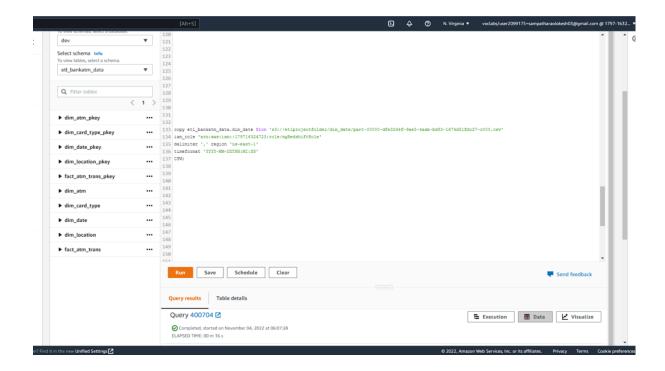


3rd query:-

copy etl_bankatm_data.dim_date from 's3://etlprojectfolder/dim_date/part-00000-dfe3244f-9ae3-4aab-bd83-1674d51fdc27-c000.csv'

iam_role 'arn:aws:iam::179716324723:role/myRedshiftRole' delimiter ',' region 'us-east-1' timeformat 'YYYY-MM-DDTHH:MI:SS'

CSV;

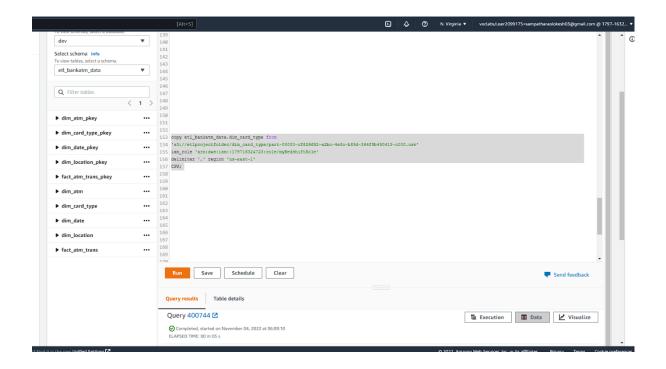


4th query:-

copy etl_bankatm_data.dim_card_type from

's3://etlprojectfolder/dim_card_type/part-00000-cf626692-a2bc-4e8c-b89d-364f9b490415-c000.csv'

iam_role 'arn:aws:iam::179716324723:role/myRedshiftRole' delimiter ',' region 'us-east-1' CSV;



5th query:-

copy etl_bankatm_data.fact_atm_trans from

 $'s3://etlprojectfolder/fact_atm_trans/part-00000-c74fc6e1-8615-45cc-a1a2-9095d01be4df-c000.csv'$

iam_role 'arn:aws:iam::179716324723:role/myRedshiftRole' delimiter ',' region 'us-east-1' CSV;

