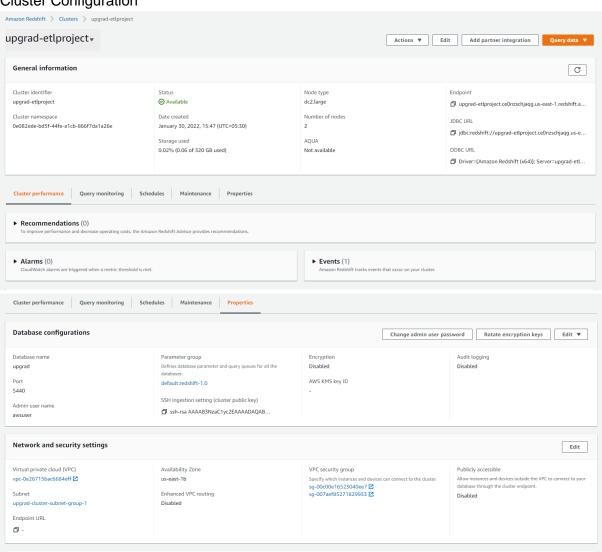




Creation of a Redshift Cluster

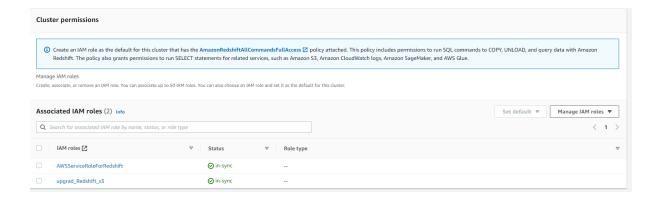
Screenshots of the configuration of the Redshift cluster that you have created:

Cluster Configuration













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

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

Location Table

```
create table DIM_LOCATION(
location_id integer not null primary key,
location varchar(50),
streetname varchar(255),
street_number integer,
zipcode integer,
lat decimal(10,3),
lon decimal(10,3));
```

ATM Table

```
create table DIM_ATM(
atm_id integer not null primary key,
atm_number varchar(20),
atm_manufacturer varchar(50),
atm_location_id integer not null,
foreign key(atm_location_id) references DIM_ATM(atm_id));
```

Date Table

```
create table DIM_DATE(
date_id integer not null primary key,
full_date_time timestamp,
year integer,
month varchar(20),
day integer,
hour integer,
weekday varchar(20));
```

Card type table

```
create table DIM_CARD_TYPE(
card_type_id integer not null primary key,
card_type varchar(23));
```

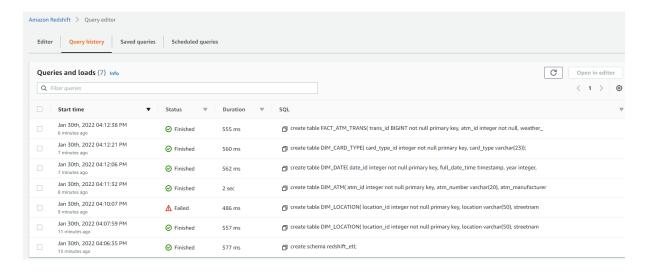
Transaction Fact Table

```
create table FACT_ATM_TRANS(
trans_id BIGINT not null primary key,
atm_id integer,
weather_loc_id integer,
date_id VARCHAR(10),
card_type_id integer,
```





atm_status VARCHAR(20),
currency VARCHAR(10),
service VARCHAR(20),
transaction_amount integer,
message_code VARCHAR(255),
message_text VARCHAR(255),
rain_3h DECIMAL(10,3),
clouds_all DECIMAL(10,3),
weather_id integer,
weather_main VARCHAR(50),
weather_description VARCHAR(255),
foreign key(atm_id) references DIM_ATM(atm_id),
foreign key(card_type_id) references DIM_CARD_TYPE(card_type_id),
foreign key(weather_loc_id) references DIM_LOCATION(location_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

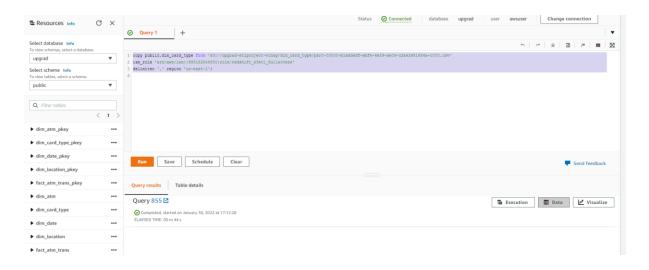
Card_type

 $copy\ public.dim_card_type\ from\ 's3://upgrad-etlproject-vinay/dim_card_type/part-00000-b1edd4df-ebf4-4e39-ae09-c2a42681686a-c000.csv'$

iam_role 'arn:aws:iam::693162548630:role/redshift_s3etl_fullaccess'
delimiter ',' region 'us-east-1';



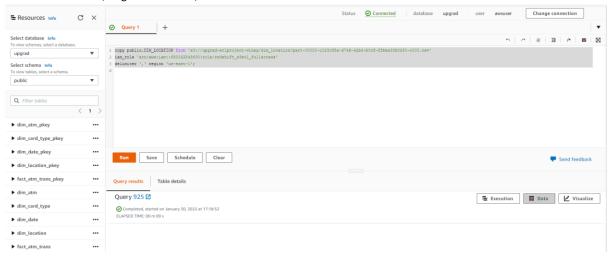




Location

 $copy\ public. DIM_LOCATION\ from\ 's 3: // upgrad-etlproject-vinay/dim_location/part-00000-c123c95a-d746-42b4-b0cf-f8bea 30b0260-c000.csv'$

iam_role 'arn:aws:iam::693162548630:role/redshift_s3etl_fullaccess'
delimiter ',' region 'us-east-1';



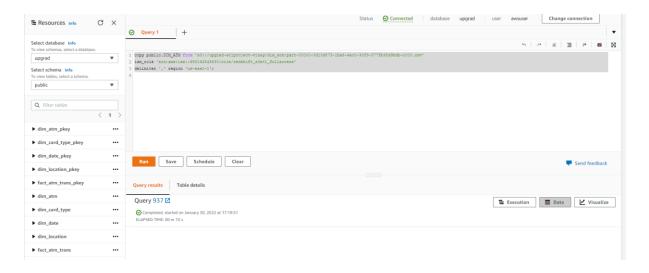
ATM

 $copy\ public. DIM_ATM\ from\ 's 3: // upgrad-etlproject-vinay/dim_atm/part-00000-3d 10d 873-1ba6-4ec 0-90f 9-577f b 95d 9bd b-c 000.csv'$

iam_role 'arn:aws:iam::693162548630:role/redshift_s3etl_fullaccess'
delimiter ',' region 'us-east-1';







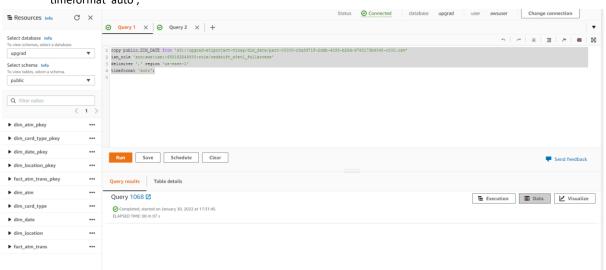
Date

 $copy\ public. DIM_DATE\ from\ 's 3: // upgrad-etlproject-vinay/dim_date/part-00000-c 3 a 3 d 71 f-2 d d b-4038-b 29 d-6763173 b 6048-c 000.c s v'$

iam_role 'arn:aws:iam::693162548630:role/redshift_s3etl_fullaccess'

delimiter ',' region 'us-east-1'

timeformat 'auto';



ATM_TRANS

copy public.FACT_ATM_TRANS from 's3://upgrad-etlproject-vinay/fact_atm_trans/part-00000-2e51d27e-da8c-480b-8732-af334d2c122b-c000.csv'

iam_role 'arn:aws:iam::693162548630:role/redshift_s3etl_fullaccess' delimiter',' region 'us-east-1'





emptyasnull blanksasnull removequotes escape maxerror AS 100000;

