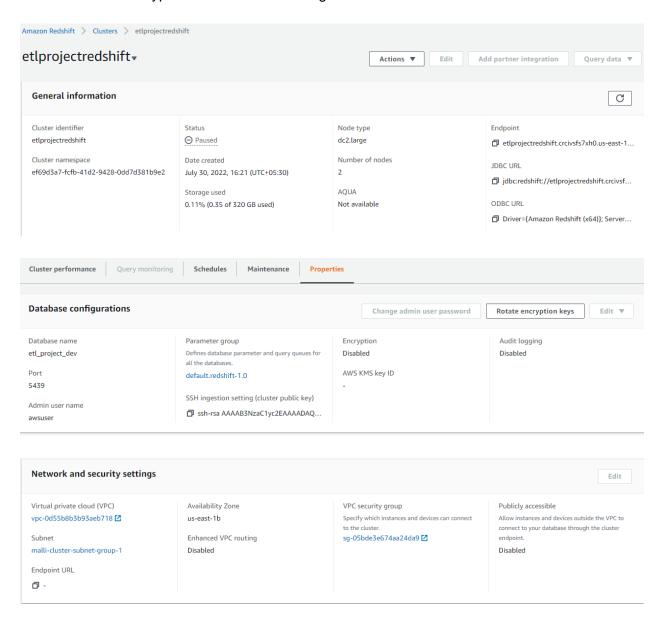




Creation of a Redshift Cluster

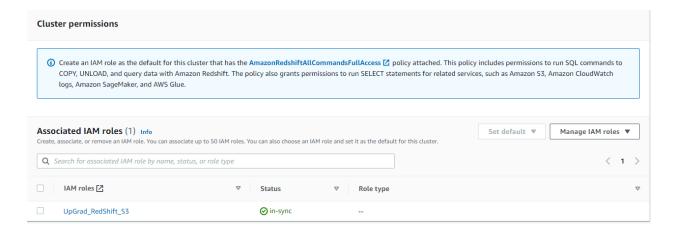
Screenshots of the configuration of the Redshift cluster that you have created:

<Screenshot of the type of machine used along with number of nodes>













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:





```
create table etl_project.CardType
(
card_type varchar(100)
,CardType_ID integer
);
create table etl_project.Location
(
atm_location varchar(100)
,atm_streetname varchar(300)
,atm_street_number integer
,atm_zipcode integer
,atm_lat decimal(10,3)
,atm_lon decimal(10,3)
,Location_ID integer not null distkey sortkey
);
create table etl_project.Date
(
Year integer
,Month varchar(100)
,Day integer
,Hour integer
```



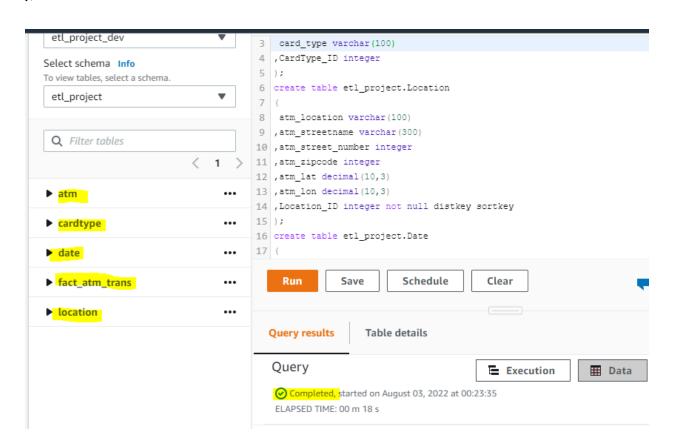


```
,Weekday varchar(100)
,full_date_time varchar(100)
,Date_ID integer
);
create table etl_project.Atm
(
ATM_Dim_ld integer
,Atm_manufacturer varchar(100)
,atm_number varchar(100)
,atm_location_id integer
);
create table etl_project.Fact_Atm_Trans
(
Location_Id integer
,ATM_Dim_ld integer
,Date_Id integer
,CardType_Id integer
,atm_status varchar(50)
,currency varchar(50)
,service varchar(50)
,transaction_amount integer
```





```
,message_code varchar(500)
,message_text varchar(500)
,rain_3h varchar(50)
,clouds_all varchar(50)
,weather_id varchar(50)
,weather_main varchar(50)
,weather_description varchar(500)
,trans_id integer
);
```



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 etl_project.CardType from
```

's3://mallietlprojects3bucket/Dimensions/CardType/part-00000-00e534dd-dc6a-4f5e-856b-1a8b37e92ee8-c000.csv'

iam_role 'arn:aws:iam::719946286510:role/UpGrad_RedShift_S3' delimiter ',' region 'us-east-1';

copy etl project.Location from

's3://mallietlprojects3bucket/Dimensions/Location/part-00000-152a8dae-7a0f-401e-970b-9fb0d602597f-c000.csv'

iam_role 'arn:aws:iam::719946286510:role/UpGrad_RedShift_S3' delimiter ',' region 'us-east-1';

copy etl_project.Date from

's3://mallietlprojects3bucket/Dimensions/Date/part-00000-6a59cf56-156a-4700-9e9b-db3999a1ee25-c000.csv'

iam_role 'arn:aws:iam::719946286510:role/UpGrad_RedShift_S3' delimiter ',' region 'us-east-1';

copy etl_project.Atm from

's3://mallietlprojects3bucket/Dimensions/Atm/part-00000-9118bd77-dab3-4c74-9ba6-36e5fcbaeac1-c000.csv'

iam_role 'arn:aws:iam::719946286510:role/UpGrad_RedShift_S3' delimiter ',' region 'us-east-1';

copy etl_project.Fact_Atm_Trans from

's3://mallietlprojects3bucket/Facts/part-00000-8954d551-71c3-4222-9267-7b54cb62b887-c000.csv'

iam_role 'arn:aws:iam::719946286510:role/UpGrad_RedShift_S3' delimiter ',' region 'us-east-1';





13	iam_role 'arn:aws:iam::719946286510:role/UpGrad_RedShift_S3'
14	delimiter ',' region 'us-east-1';
15	
16	copy etl_project.Atm from
17	's3://mallietlprojects3bucket/Dimensions/Atm/part-00000-9118bd77-dab3-4c74-9ba6-36e5fcbaeac1-c000.c
18	<pre>iam_role 'arn:aws:iam::719946286510:role/UpGrad_RedShift_S3'</pre>
19	delimiter ',' region 'us-east-1';
20	
21	copy etl_project.Fact_Atm_Trans from
22	's3://mallietlprojects3bucket/Facts/part-00000-8954d551-71c3-4222-9267-7b54cb62b887-c000.csv'
23	iam_role 'arn:aws:iam::719946286510:role/UpGrad_RedShift_S3'
24	<pre>delimiter ',' region 'us-east-1';</pre>
	Run Save Schedule Clear
	Run Save Schedule Clear
	Query results Table details
	Query 722 🖸 🗏 Execution
	L Execution
	Completed, started on August 03, 2022 at 00:30:24
	ELAPSED TIME: 02 m 48 s