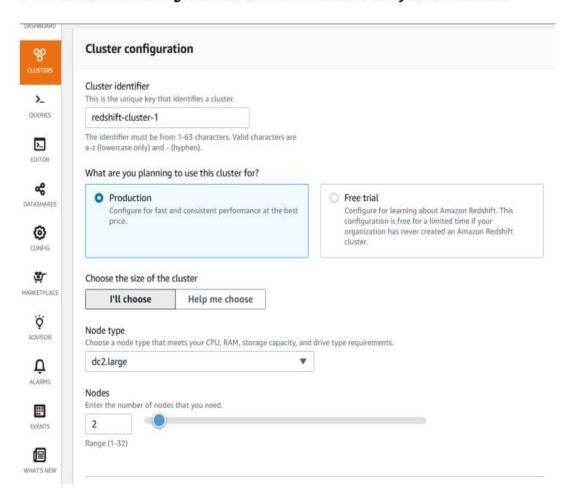
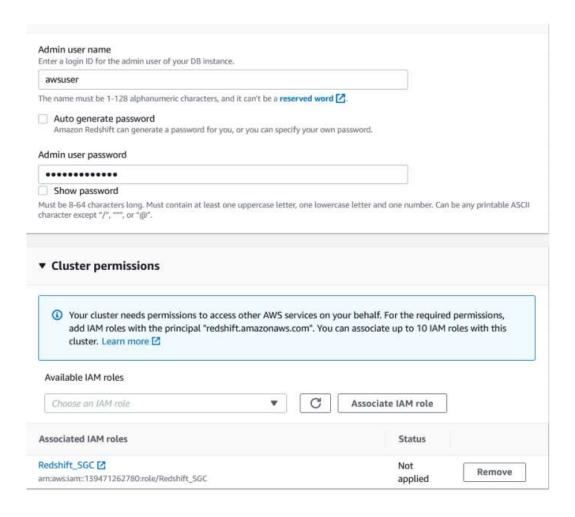
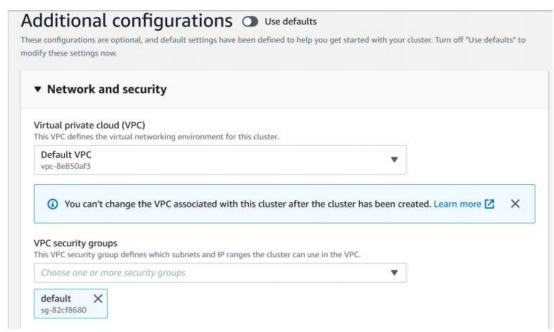
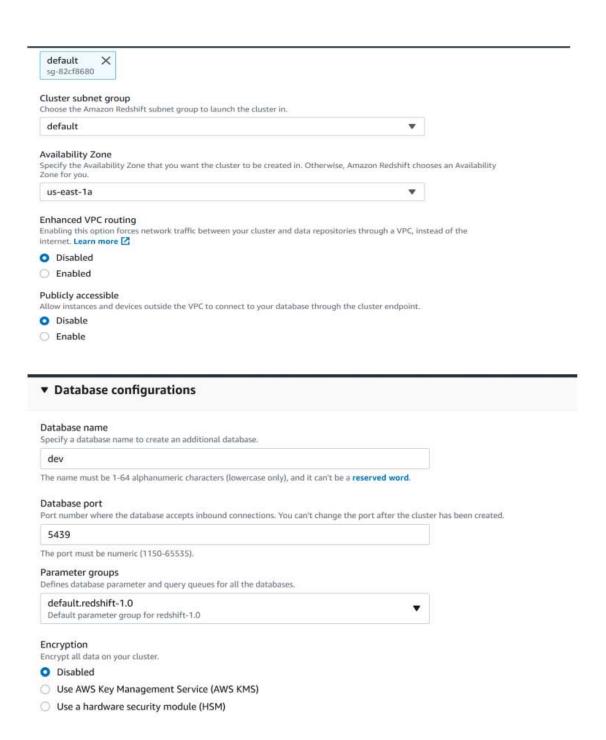
Creation of a RedShift Cluster Screenshots of the configuration of the RedShift cluster that you have created:

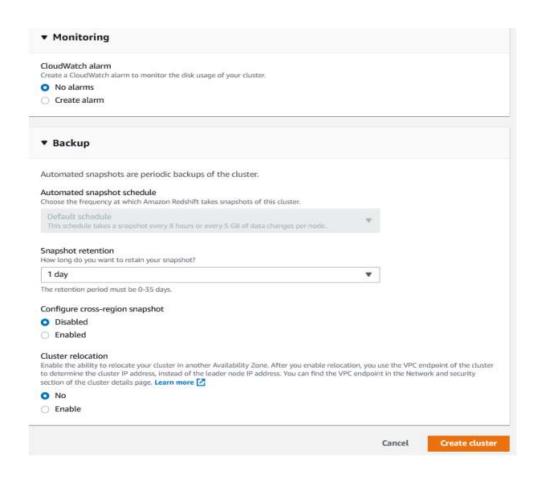
Screenshots of the configuration of the RedShift cluster that you have created:











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

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

- 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));
- 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));
- 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));
- 4. create table DIM_CARD_TYPE(card_type_id integer not null primary key, card_type varchar(23));
- 5. create table FACT_ATM_TRANS(trans_id BIGINT not null primary key, atm_id integer not null, weather_loc_id integer not null, date_id integer not null, card_type_id integer not null, 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 integer, weather_id integer, weather_main VARCHAR(50), weather_description VARCHAR(255), foreign key(atm_id) references DIM_ATM(atm_id), foreign key(date_id) references DIM_DATE(date_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:

- copy DIM_LOCATION from 's3://badalvishal/dim_location/part-00000-ecc7cb4bcb7b-4996-835c-a072b0e76d34-c000.csv' credentials 'aws_iam_role=arn:aws:iam::139471262780:role/Redshift_SGC' delimiter ',' region 'us-east-1';
- copy DIM_ATM from 's3://badalvishal/dim_atm/part-00000-2e0c55f2-957f-4fb7- bba0-4e10e1117566-c000.csv' credentials 'aws_iam_role=arn:aws:iam::139471262780:role/Redshift_SGC' delimiter ',' region 'us-east-1';
- 3. copy DIM_DATE from 's3://badalvishal/dim_date/part-00000-0b7e52ee-e32d4c1a-b4ed-410ff5f4faf0-c000.csv' credentials 'aws_iam_role=arn:aws:iam::139471262780:role/Redshift_SGC' delimiter ',' timeformat 'auto' region 'us-east-1';
- 4. copy DIM_CARD_TYPE from 's3://badalvishal/dim_card_type/part-00000- 4474c06d-e07f-4de5-896a-168a83743af1-c000.csv' credentials 'aws_iam_role=arn:aws:iam::139471262780:role/Redshift_SGC' delimiter ',' region 'us-east-1';
- 5. copy FACT_ATM_TRANS from 's3://badalvishal/fact_atm_trans/part-00000- 0c0ba84b-188b-406b-8e94-0bbfdd84724e-c000.csv' credentials 'aws_iam_role=arn:aws:iam::139471262780:role/Redshift_SGC' delimiter ',' region 'us-east-1'