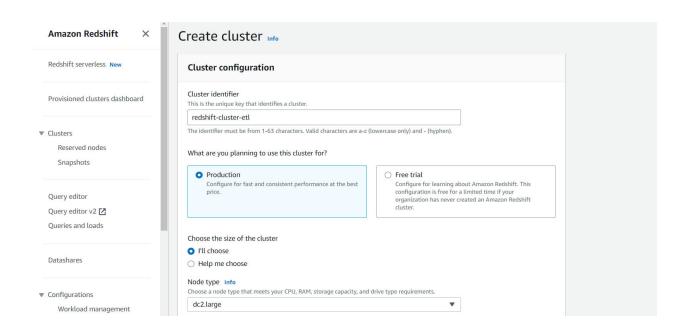
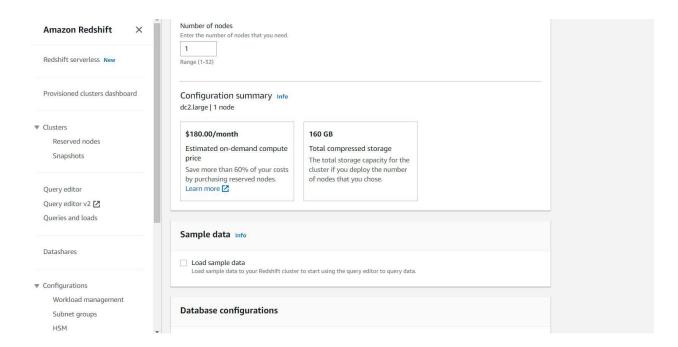




## Creation of a Redshift Cluster

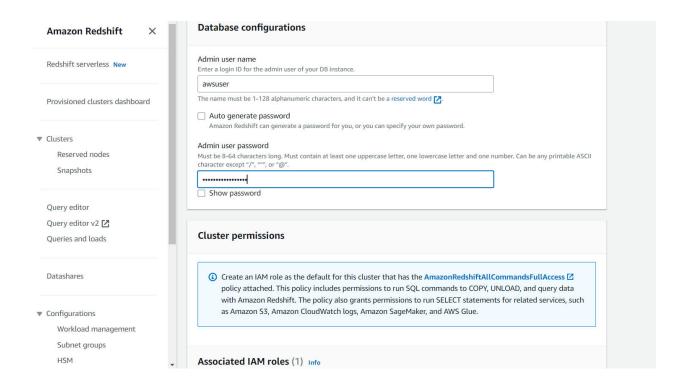
## Screenshots of the configuration of the Redshift cluster that you have created:

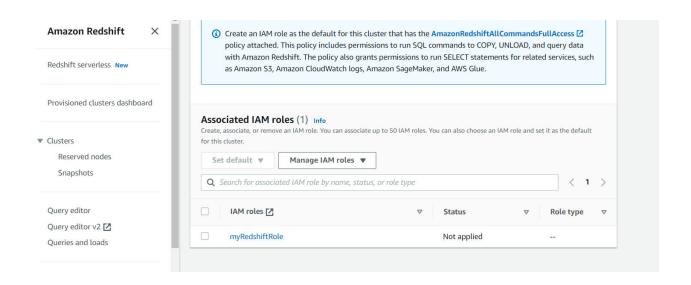






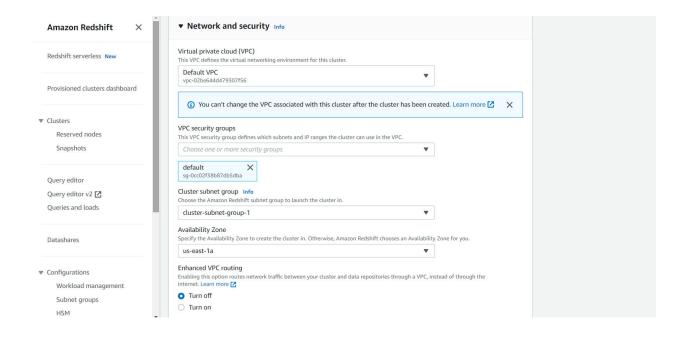
















Setting up a database in the Redshift cluster and running queries to create the dimension and fact tables

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

```
create schema etlproject;
create table etlproject.dim_location
                             varchar(50),
        location
        streetname
                              varchar(255),
        street_number
                              int,
        zipcode
                              int,
        lat
                              decimal(10,3),
                             decimal(10,3),
        lon
        location_id
                              int
);
create table etlproject.dim atm
       atm number
                              int,
       atm manufacturer
                              varchar(20),
       atm_location_id
                             varchar(50),
       atm id
                              int
);
create table etlproject.dim_card_type
       card type
                             varchar(30),
       card_type_id
                              int
);
```

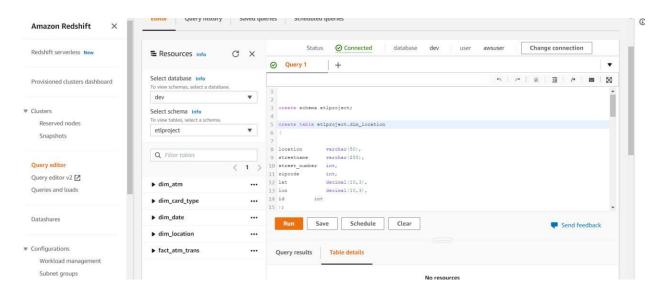




```
create table etlproject.dim_date
       year
                      int,
       month
                      varchar(20),
       day
                      int,
                      varchar(20),
       weekday
       hour
                      int,
       full_date_time varchar(30),
       date_id
                      int
);
create table etlproject.fact_atm_trans
       atm_status
                                    varchar(20),
       currency
                                    varchar(10),
       service
                                    varchar(20),
       transaction_amount
                                    int,
       message code
                                    varchar(255),
                                    varchar(255),
       message_text
                                    decimal(10,3),
       rain_3h
       clouds_all
                                    int,
       weather id
                                    int,
       weather_main
                                    varchar(50),
       weather_description
                                    varchar(255),
       card_type_id
                                    int,
       date_id
                                    int,
       atm_id
                                    int,
       weather loc id
                                    int,
       trans_id
                                    bigint
);
```







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

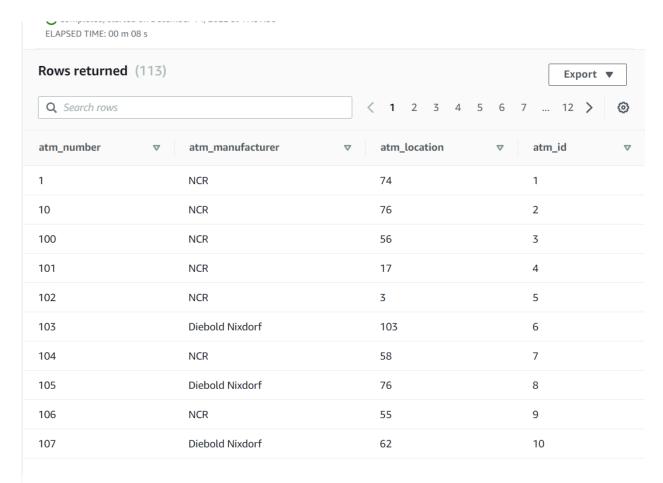
copy etlproject.dim\_atm from 's3://etlprojectnew/data/dim\_atm/part-00000-e0053268-59dc-47ab-bf23-3cdd69e01f23-c000.csv' iam\_role

'arn:aws:iam::274560308997:role/myRedshiftRole' delimiter ',' region 'us-east-1' CSV IGNOREHEADER as 1

ï











copy etlproject.dim\_card\_type from 's3://etlprojectnew/data/dim\_card\_type/part-00000-709454aa-f42c-41ec-b8f6-705ff18a208e-c000.csv' iam\_role 'arn:aws:iam::274560308997:role/myRedshiftRole' delimiter ',' region 'us-east-1' CSV IGNOREHEADER as 1

Query 1210 🗹 **Execution ⊞** Data Completed, started on December 14, 2022 at 18:30:50 ELAPSED TIME: 00 m 02 s Rows returned (5) Q Search rows card\_type card\_type\_id **CIRRUS** 1 2 Dankort 3 Dankort - on-us HÃ*f*¦vekort 4  $H\tilde{A}f\hat{A}^{\dagger}_{l}$ vekort - on-us 5

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Priv

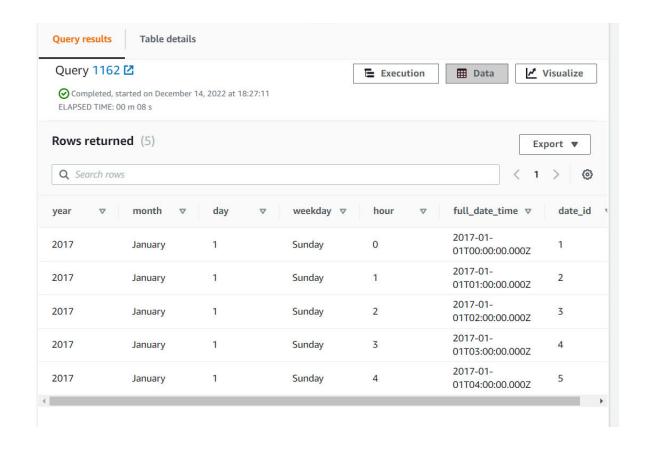




 $copy\ etlproject.dim\_date\ from\ 's3://etlprojectnew/data/dim\_date/part-00000-20bba22e-cd33-41d2-9c42-cb90c656e149-c000.csv'\ iam\_role$ 

'arn:aws:iam::274560308997:role/myRedshiftRole' delimiter ',' region 'us-east-1' CSV IGNOREHEADER as 1

;



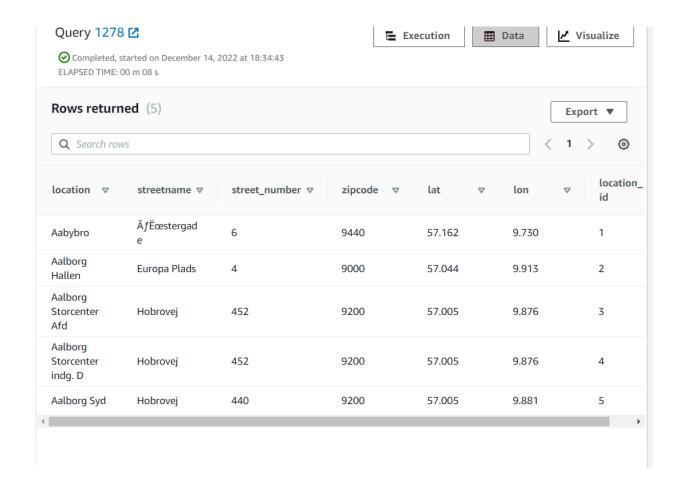




copy etlproject.dim\_location from 's3://etlprojectnew/data/dim\_location/part-00000-26c1b703-2b27-424b-ad58-0dc814f08346-c000.csv' iam\_role 'arn:aws:iam::274560308997:role/myRedshiftRole' delimiter ',' region 'us-east-1' CSV

**IGNOREHEADER** as 1

;



copy etlproject.fact\_atm\_trans from 's3://etlprojectnew/data/fact\_atm\_trans/part-00000-c4a91d36-6042-45c5-b144-81cef9fafff1-c000.csv' iam\_role 'arn:aws:iam::274560308997:role/myRedshiftRole' delimiter ',' region 'us-east-1' CSV IGNOREHEADER as 1

;





