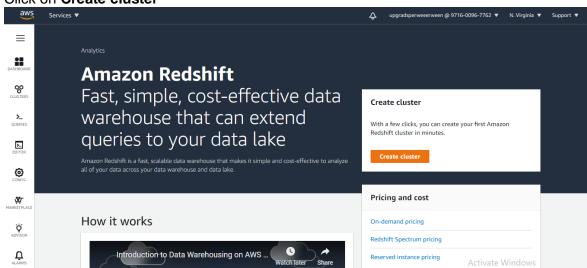




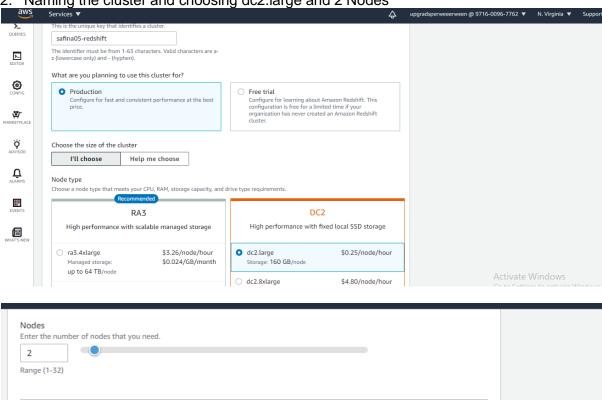
Creation of a RedShift Cluster

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

1. Click on Create cluster



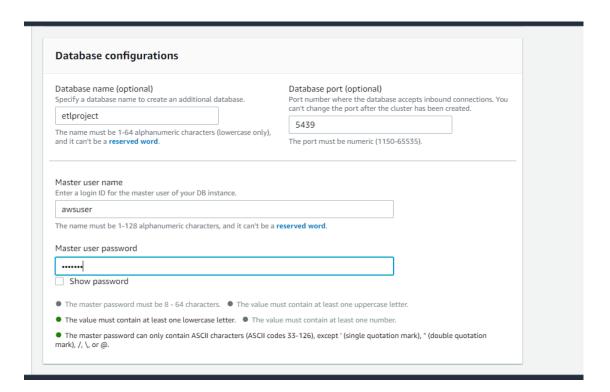
2. Naming the cluster and choosing dc2.large and 2 Nodes



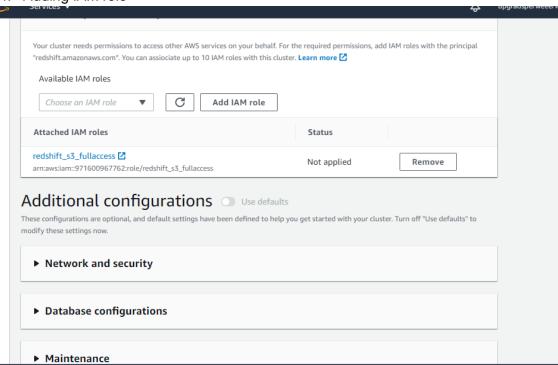




3. Configuring database



4. Adding IAM role







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 foriegn keys:

Looking analytical query questions, we see **atm_status** has been frequently filtered on so we make a **sortkey** and the primary keys are **distkeys** and they are frequently joined on

```
copy etlproject.fact atm trans from
's3a://safina05/FACT ATM TRANS/FACT ATM TRANS.csv'
iam_role 'arn:aws:iam::971600967762:role/redshift_s3_fullaccess'
delimiter ',' region 'us-east-1' REMOVEQUOTES;
copy etlproject.DIM_CARD_TYPE from
's3a://safina05/DIM CARD TYPE/DIM CARD TYPE.csv'
iam role 'arn:aws:iam::971600967762:role/redshift s3 fullaccess'
delimiter ',' region 'us-east-1';
copy etlproject.dim location from
's3a://safina05/DIM LOCATION/DIM LOCATION.csv'
iam role 'arn:aws:iam::971600967762:role/redshift s3 fullaccess'
delimiter ',' region 'us-east-1';
delete from etlproject.dim date
copy etlproject.dim_date from
's3a://safina05/DIM DATE/DIM DATE.csv'
iam role 'arn:aws:iam::971600967762:role/redshift s3 fullaccess'
delimiter ',' region 'us-east-1';
```

Cross verifying the counts of loaded data







Q. Search rows	
able_name	▽ count
lim_date	8685
act_atm_trans	2468572
lim_atm	156
lim_card_type	12
lim_location	109