



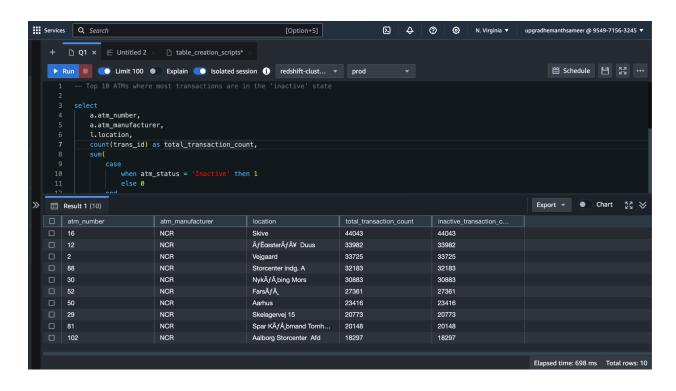
## Solving analytical queries on Redshift Cluster

Here, you have to write the query used for solving the question and the screenshots of the table which is outputted after the query is run on the AWS Redshift Query editor UI.

#### 1. Top 10 ATMs where most transactions are in the 'inactive' state









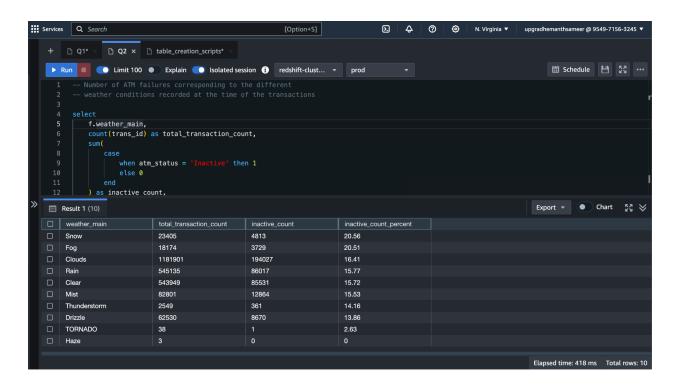


# 2. Number of ATM failures corresponding to the different weather conditions recorded at the time of the transactions

```
select
      else trunc( (
  end as inactive count percent
from
where f.weather main != ''
group by f.weather main
order by
  inactive_count_percent desc
limit 10;
```











### 3. Top 10 ATMs with the most number of transactions throughout the year

```
select
a.atm_number,
a.atm_manufacturer,
l.location,
count(trans_id) as total_transaction_count

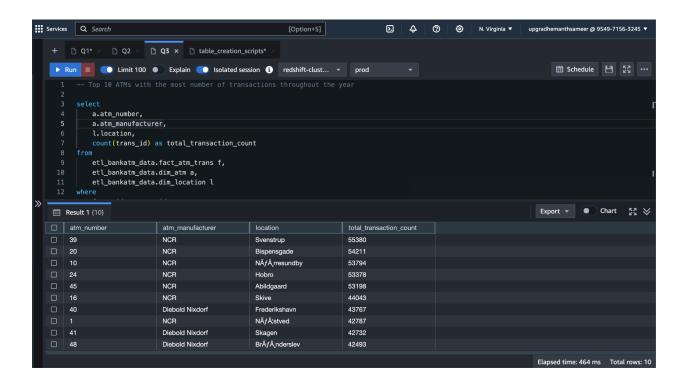
from
etl_bankatm_data.fact_atm_trans f,
etl_bankatm_data.dim_atm a,
etl_bankatm_data.dim_location l

where
f.atm_id = a.atm_id
and a.atm_location_id = l.location_id

group by
a.atm_number,
a.atm_manufacturer,
l.location

order by
total_transaction_count desc

limit 10;
```





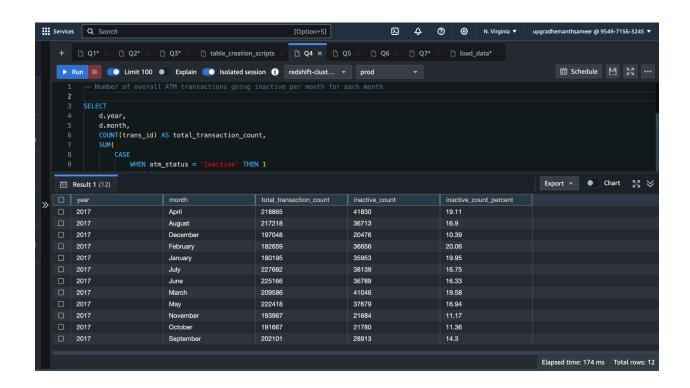


#### 4. Number of overall ATM transactions going inactive per month for each month

```
trunc(
) d on c.year = d.year
```











#### 5. Top 10 ATMs with the highest total withdrawn amount throughout the year

```
select
   a.atm_number,
   a.atm_manufacturer,
   l.location,
   sum(transaction_amount) as total_transaction_amount

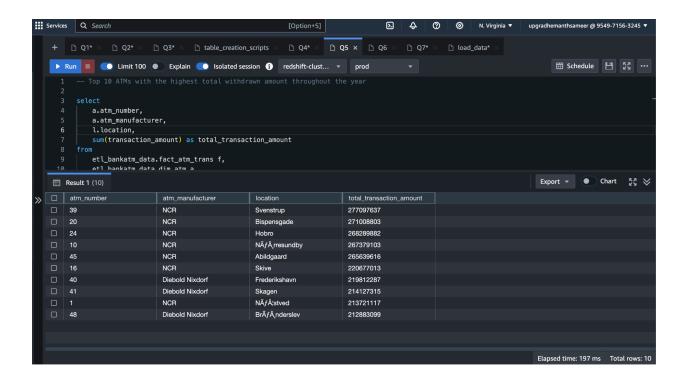
from
   etl_bankatm_data.fact_atm_trans f,
   etl_bankatm_data.dim_atm a,
   etl_bankatm_data.dim_location l

where
   f.atm_id = a.atm_id
   and a.atm_location_id = l.location_id

group by
   a.atm_number,
   a.atm_manufacturer,
   l.location

order by
   total_transaction_amount desc

limit 10;
```





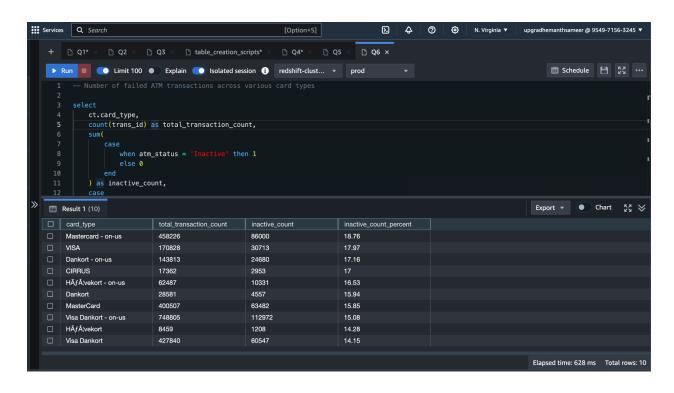


#### 6. Number of failed ATM transactions across various card types

```
select
   ct.card_type,
from
  etl bankatm data.dim card type ct
where
   f.card_type_id = ct.card_type_id
group by ct.card type
order by
  inactive count percent desc
limit 10;
```









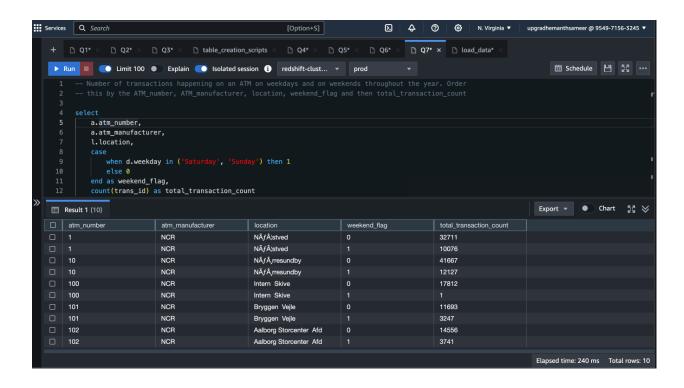


7. Number of transactions happening on an ATM on weekdays and on weekends throughout the year. Order this by the ATM\_number, ATM\_manufacturer, location, weekend\_flag and then total\_transaction\_count

```
a.atm_manufacturer,
where
group by
```











#### 8. Most active day in each ATMs from location "Vejgaard"

```
from
1.location id
group by
```





