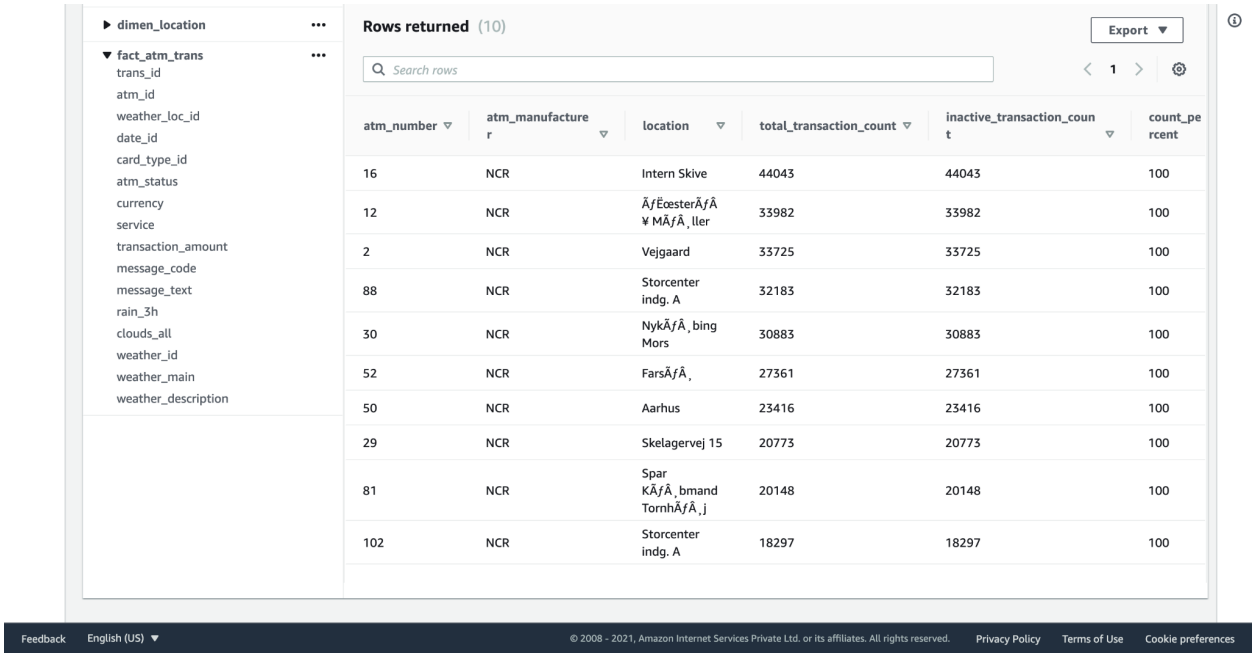
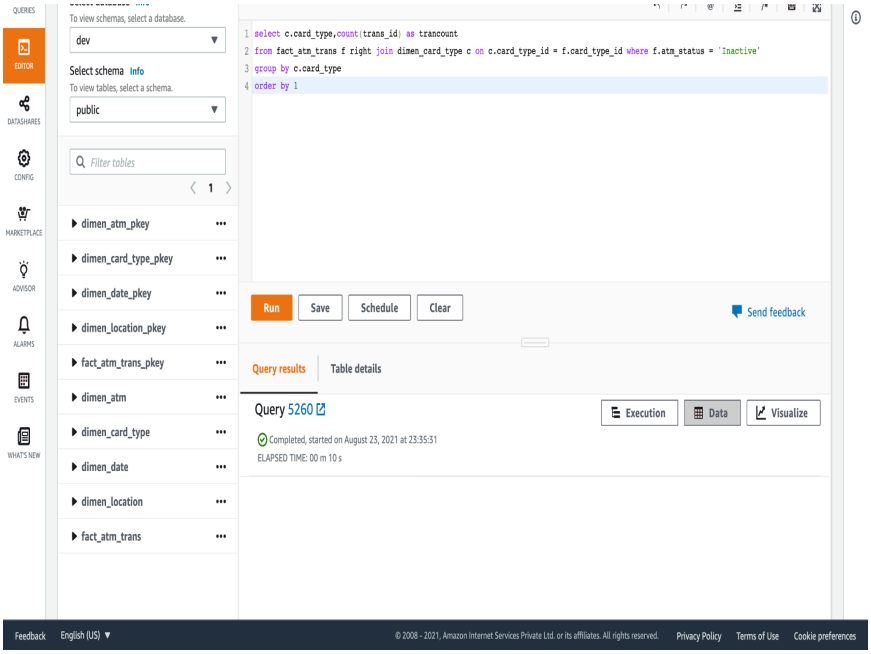
1)Top 10 ATMs where most transactions are in the ’inactive’ state

```
select b.atm_number, b.atm_manufacturer, l.location, count(trans_id) as
total_transaction_count, sum(case when atm_status = 'Inactive' then 1 else 0 end) as
inactive_transaction_count,
(inactive_transaction_count/total_transaction_count)*100 as count_percent
from etl_schema.fact_atm_trans f, etl_schema.dimen_atm b, etl_schema.dimen_location l
where f.atm_id = b.atm_id and b.atm_location_id = l.location_id
group by b.atm_number, b.atm_manufacturer, l.location
order by inactive_transaction_count desc limit 10;
```



6)Number of failed ATM transactions across various card types

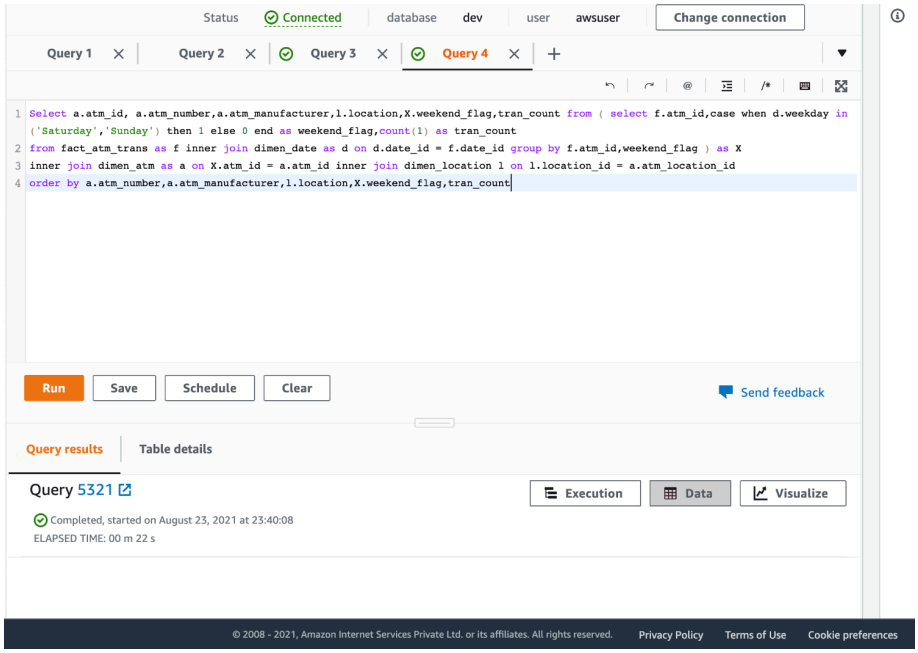
```
select
  c.card_type,
  count(trans_id) as trancount
from
  fact_atm_trans f
  right join dimen_card_type c on c.card_type_id = f.card_type_id
where
  f.atm_status = 'Inactive'
group by
  c.card_type
order by
  1
```



7)Top 10 records with the number of transactions ordered by the ATM_number, ATM_manufacturer, location, weekend_flag and then total_transaction_count, on weekdays and on weekends throughout the year

```
Select
  a.atm_id,
  a.atm_number,
  a.atm_manufacturer,
  l.location,
  X.weekend_flag,
  tran_count
from
  (
    select
      f.atm_id,case
        when d.weekday in ('Saturday', 'Sunday') then 1
        else 0
      end as weekend_flag,
      count(1) as tran_count
    from
      fact_atm_trans as f
      inner join dimen_date as d on d.date_id = f.date_id
    group by
      f.atm_id,
```

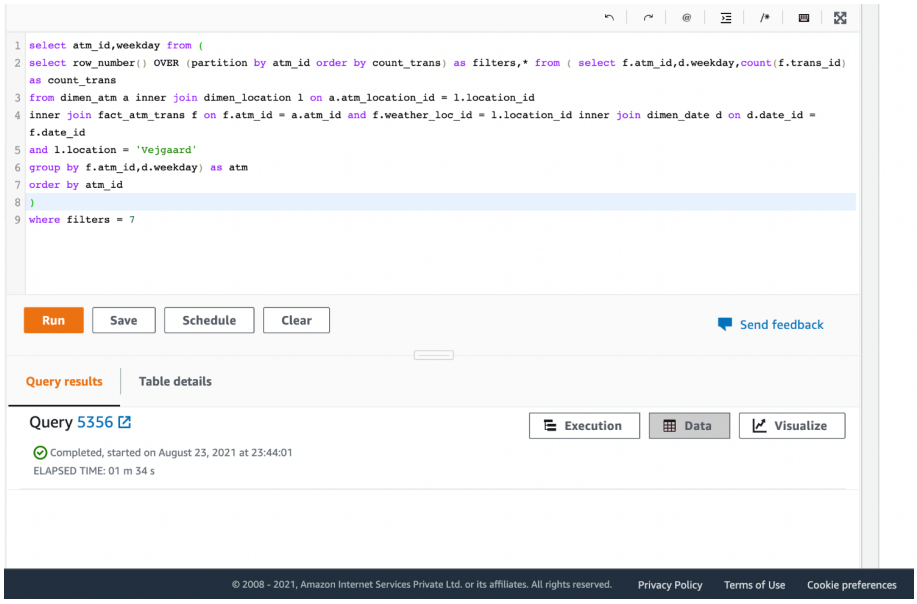
```
    weekend_flag
  ) as X
  inner join dimen_atm as a on X.atm_id = a.atm_id
  inner join dimen_location l on l.location_id = a.atm_location_id
order by
  a.atm_number,
  a.atm_manufacturer,
  l.location,
  X.weekend_flag,
  tran_count
```



8) Most active day in each ATMs from location "Vejgaard"

```
select
  atm_id,
  weekday
from
  (
    select
      row_number() OVER (
        partition by atm_id
        order by
          count_trans
      ) as filters,
      *
    from
```

```
    (
      select
        f.atm_id,
        d.weekday,
        count(f.trans_id) as count_trans
      from
        dimen_atm a
        inner join dimen_location l on a.atm_location_id = l.location_id
        inner join fact_atm_trans f on f.atm_id = a.atm_id
        and f.weather_loc_id = l.location_id
        inner join dimen_date d on d.date_id = f.date_id
        and l.location = 'Vejgaard'
      group by
        f.atm_id,
        d.weekday
    ) as atm
  order by
    atm_id
)
where
 filters = 7
```



(tried getting the tables for 6,7,8 a lot of times but the query runs and then table doesn't get displayed)
Hence submitting them