

## 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;
```

► dimen\_location

▼ fact\_atm\_trans

trans\_id

atm\_id

weather\_loc\_id

date\_id

card\_type\_id

atm\_status

currency

service

transaction\_amount

message\_code

message\_text

rain\_3h

clouds\_all

weather\_id

weather\_main

weather\_description

Rows returned (10)

Export ▼

①

Q Search rows

< 1 > ⚙

atm_number ▼	atm_manufacture r ▼	location ▼	total_transaction_count ▼	inactive_transaction_coun t ▼	count_pe rcent
16	NCR	Intern Skive	44043	44043	100
12	NCR	Århus, Østergade	33982	33982	100
2	NCR	Vejsøvej	33725	33725	100
88	NCR	Storcenter indg. A	32183	32183	100
30	NCR	Nykøbing, bing Mors	30883	30883	100
52	NCR	Farsøvej	27361	27361	100
50	NCR	Aarhus	23416	23416	100
29	NCR	Skelagervej 15	20773	20773	100
81	NCR	Spar København, bmand Tørnavej, j	20148	20148	100
102	NCR	Storcenter indg. A	18297	18297	100

Feedback

English (US) ▼

© 2008 - 2021, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved.

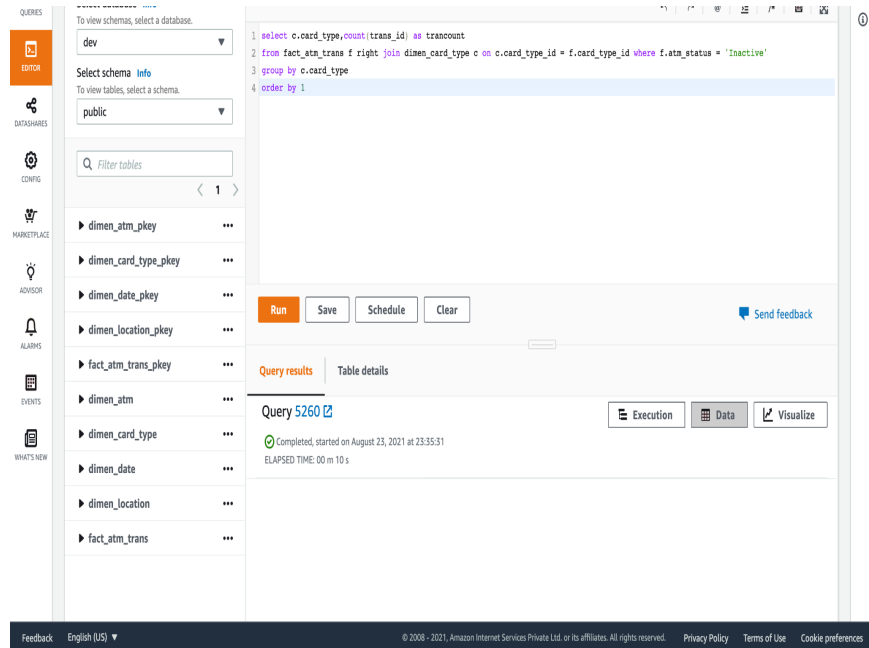
Privacy Policy

Terms of Use

Cookie preferences

## 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

```

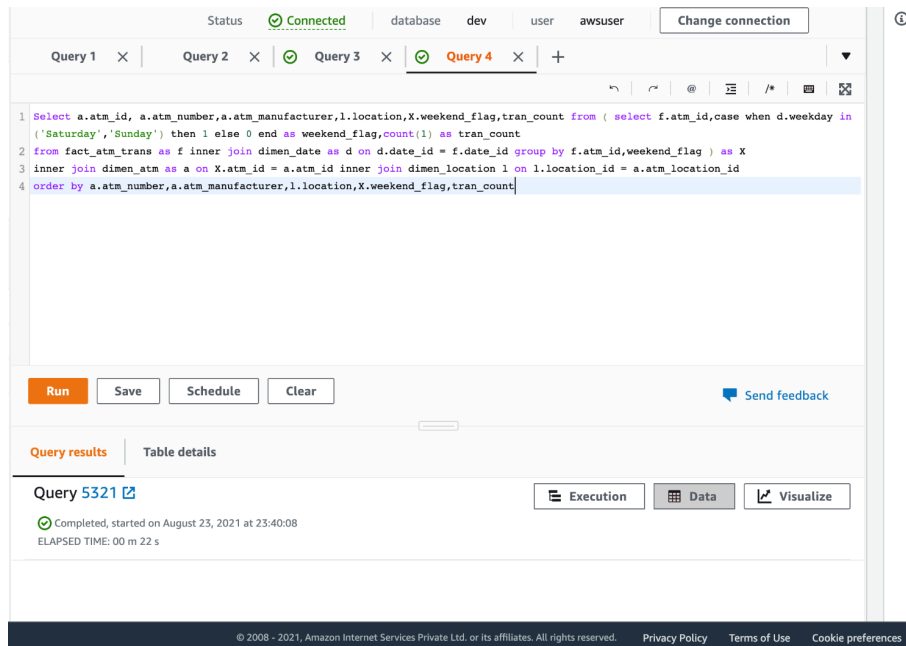
Select
  a.atm_id,
  a.atm_number,
  a.atm_manufacturer,
  l.location,
  X.weekend_flag,
  tran_count
from
  (
    select
      f.atm_id, case
        when d.weekday in ('Saturday', 'Sunday') then 1
        else 0
      end as weekend_flag,
      count(1) as tran_count
    from
      fact_atm_trans as 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

```

The screenshot shows a SQL query editor interface. The query is as follows:

```

1 select atm_id,weekday from (
2 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)
3 as count_trans
4 from dimen_atm a inner join dimen_location l on a.atm_location_id = l.location_id
5 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 =
6 f.date_id
7 and l.location = 'Vejgaard'
8 group by f.atm_id,d.weekday) as atm
9 order by atm_id
10 )
11 where filters = 7

```

Below the query editor, there are buttons for "Run", "Save", "Schedule", and "Clear". A "Send feedback" link is also present. The interface shows "Query results" and "Table details" tabs. The "Query results" tab is active, displaying "Query 5356" with a status of "Completed, started on August 23, 2021 at 23:44:01" and an "ELAPSED TIME: 01 m 34 s". There are also buttons for "Execution", "Data", and "Visualize". At the bottom, there is a footer with copyright information and links for "Privacy Policy", "Terms of Use", and "Cookie preferences".

(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