1) Find the name of persons that made more than 5 transactions

```
with top_buyers(account_id, number_of_purchases) as
(select account_id, count(*) as number_of_purchases
from fact_transactions
join dim_accounts
using (account_id)
group by account_id
having count(*) > 5)
select name , number_of_purchases
from dim_accounts
join top_buyers
using (account_id);
```

name	number_of_purchases
Erin Castro	7
Jonathan Gordon	7
Richard Russell	6
Dr. Matthew King Jr.	7
Kathryn Mendez	6
Susan Lane	6
John Gallegos PhD	6
Kara Snow	6
Justin Buck	6
Edward Trevino	6
Peter Garcia	6
Cheryl Lopez	6
Eric Gonzalez	6
Joseph Hopkins	6

2) Find the number of positive and negative balances after all transactions are completed

(Be careful: there are accounts that have not had any transactions)

```
with total_amount_per_person(account_id , total_amount) as
  (select account_id, sum(amount)
  from fact_transactions
  group by account_id)
  select
SUM(case when dm.balance >= ta.total_amount or (dm.balance >= 0 and
  ta.total_amount is null) then 1 else 0 end) as
  number_of_positive_balances,
SUM(case when dm.balance <= ta.total_amount or (dm.balance <= 0 and
  ta.total_amount is null) then 1 else 0 end) as
  number_of_negative_balances
  from dim_accounts dm
  left join total_amount_per_person ta
  using (account_id);</pre>
```

3) Find the name of persons who have made transactions for three consecutive days, with only one transaction on the second day

```
with consecutive_purchase_dates (account_id, date, next_purchase_date,
subsequent_purchase_date) as
(select account_id, date,
lag(date, 1, 0) over(partition by account_id order by date desc) as
next_purchase_date,
lag(date, 2, 0) over(partition by account_id order by date desc) as
subsequent_purchase_date
from fact_transactions)
select name, date, next_purchase_date, subsequent_purchase_date
from dim_accounts
join consecutive_purchase_dates
using (account_id)
where next_purchase_date = date + INTERVAL 1 DAY
and subsequent_purchase_date = date + INTERVAL 2 DAY;
```

name	date	next_purchase_date	subsequent_purchase_date
Lisa Robinson	2022-01-21	2022-01-22	2022-01-23
Lisa Mack	2022-01-06	2022-01-07	2022-01-08
Kathleen Perez	2022-01-01	2022-01-02	2022-01-03
Michael Edwards	2022-01-17	2022-01-18	2022-01-19
Jason Smith	2022-01-11	2022-01-12	2022-01-13
Maria Bradley	2022-01-04	2022-01-05	2022-01-06
Justin Buck	2022-01-07	2022-01-08	2022-01-09
Taylor Jackson	2022-01-19	2022-01-20	2022-01-21