Second: Write queries that directly answer predetermined questions from a business stakeholder

 When considering average spend from receipts with 'rewardsReceiptStatus' of 'Accepted' or 'Rejected', which is greater?

```
Select case
when AVG(CASE WHEN r. rewardsReceiptStatus = 'Accepted' then t.total_spent END) >
        AVG(CASE WHEN r. rewardsReceiptStatus = 'Rejected' then t.total_spent END)
        THEN 'Accepted'
        ELSE 'Rejected'
END AS most_average_spend
from receipts r
join transaction t
on r.receipt_id = t.receipt_id
```

 When considering total number of items purchased from receipts with 'rewardsReceiptStatus' of 'Accepted' or 'Rejected', which is greater?

```
Select case
when SUM(CASE WHEN r. rewardsReceiptStatus = 'Accepted' then t. purchasedItemCount
END) >
        SUM(CASE WHEN r. rewardsReceiptStatus = 'Rejected' then t. purchasedItemCount
END)
        THEN 'Accepted'
        ELSE 'Rejected'
END AS most_item_counts
from receipts r
join transaction t
on r.receipt_id = t.receipt_id
```

 Which brand has the most spend among users who were created within the past 6 months?

```
With most_spend as (
Select b.name as brand_name, sum(t.total_spent) as most_spend
from receipt r
join transaction t
on r.receipt_id = t.receipt_id
join brand b
on t.brand_id = b.brand_id
where r.createDate >= CURRENT_DATE() - INTERVAL '6 months'
group by b.brand_id
),
spend_rank as
Select brand_name, most_spend, dense_rank() over (order by most_spend desc) sp_rank
from most_spend
Select brand_name
from spend_rank
where sp_rank = 1
```

 Which brand has the most transactions among users who were created within the past 6 months?

```
With most_transactions as (
Select b.name as brand_name, count(t.receipt_id) as transaction_count
from receipt r
join transaction t
on r.receipt_id = t.receipt_id
join brand b
on t.brand_id = b.brand_id
where r.createDate >= CURRENT_DATE() - INTERVAL '6 months'
group by b.brand_id
),
transaction_rank as
Select brand_name, most_spend, dense_rank() over (order by transaction_count desc)
t_rank
from most_transactions
Select brand_name
from transaction_rank
where t_rank = 1
```