FETCH SQL QUERIES

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

I don't see the values of the status column as accepted or rejected, I wrote a query grouped by status to get the result

OUTPUT:

STATUS	TotalSpent
FINISHED	41882.53
FLAGGED	8300.78
REJECTED	1656.15
PENDING	1373.59
SUBMITTED	NULL

4. Which considering total number of items purchased from receipts with rewardreceiptstatus of 'Accepted' or 'rejected' which is greater?

I don't see the values of the status column as accepted or rejected, I wrote a query grouped by status to get the result.

Since there is a lot of duplicate data, I decided to get the distinct receipt id with the number of items in each id and then sum the total count per each status to get the total itemcount.

OUTPUT:

STATUS	Count
FINISHED	8184
FLAGGED	1014
REJECTED	173
PENDING	0
SUBMITTED	0

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

OUTPUT:

brandcode	TotalSpent
BEN AND JERRYS	20040.77

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

The same logic as above question 5 is taken into consideration for past 6 months. Considering each receipt item as a transaction

OUTPUT:

brandcode	Transactions
HY-VEE	291

1. What are the top 5 brands by receipts scanned for most recent month?

Since data is outdated, I took the max of date scanned to be the most recent month. But still the data is not accurate and missing data for brands, hence giving the query which gives results for above results.

```
SELECT a.brandcode
        ,count(a. id)
FROM (
        SELECT DISTINCT id
                rewardsReceiptItemList brandcode AS brandcode
                , dateScanned
        FROM dbo.receipts new1
        WHERE rewardsReceiptItemList brandcode IS NOT NULL
                \overline{AND} month (datescanned) = (
                        SELECT month (max (datescanned) )
                        FROM dbo.receipts new1
                AND year(datescanned) = (
                        SELECT year (max (datescanned) )
                        FROM dbo.receipts new1
        ) a
GROUP BY a.brandcode
ORDER BY count(a. id) DESC
```

2. How does the ranking of top 5 brands by receipts scanned for recent month compare to ranking of previous month?

To get previous month, I subtracted one month from the most recent one.

```
SELECT a.brandcode
       , count(a._id)
FROM (
       SELECT DISTINCT id
               ,rewardsReceiptItemList_brandcode AS brandcode
               , dateScanned
       FROM dbo.receipts new1
       WHERE rewardsReceiptItemList brandcode IS NOT NULL
               AND month(datescanned) = (
                       SELECT month (max (datescanned) -1)
                       FROM dbo.receipts_new1
               AND year(datescanned) = (
                       SELECT year (max (datescanned) -1)
                       FROM dbo.receipts new1
        ) a
GROUP BY a.brandcode
ORDER BY count(a._id) DESC
```