

Queries

1)

We need to convert the date from Epoch to human-readable format before running the query

```
WITH TOPCOUNTS AS
(
  SELECT COUNT(BARCODE), R_ID
  FROM ItemTransaction I
  GROUP BY R_ID, BARCODE
)

SELECT B.NAME
FROM TOPCOUNTS TC
LEFT JOIN RECEIPTS R
ON R.R_ID = TC.R_ID
LEFT JOIN BRAND B
ON B.BARCODE = R.BARCODE
WHERE DATESCANDED > GETDATE()-1
ORDER BY DESC
LIMIT 5;
```

2)

We will use rank function to compare the brands ranking for the two months

```
WITH TOPCOUNTS AS
(
  SELECT COUNT(BARCODE), R_ID
  FROM ItemTransaction I
  GROUP BY R_ID, BARCODE
)

SELECT B.NAME,
RANK() OVER (Partition by
              SELECT B2.NAME
              FROM TOPCOUNTS TC
              LEFT JOIN RECEIPTS R2
```

```

        ON R2.R_ID = TC.R_ID
        LEFT JOIN BRAND B2
        ON B2.BARCODE = R2.BARCODE
        WHERE DATESCANNED > GETDATE()-1
        ORDER BY DESC
        LIMIT 5) ranking
FROM TOPCOUNTS TC
LEFT JOIN RECEIPTS R
ON R.R_ID = TC.R_ID
LEFT JOIN BRAND B
ON B.BARCODE = R.BARCODE
WHERE DATESCANNED > GETDATE()-2
ORDER BY DESC
LIMIT 5;

```

3)

```

Select if(
(select avg(totalSpent) from receipts
where rewardsReceiptStatus="Accepted")
>
(select avg(totalSpent) from receipts
where rewardsReceiptStatus="Rejected")
, "Accepted","Rejected") Status

```

4)

```

Select if(
(select COUNT(purchasedItemCount) from receipts
where rewardsReceiptStatus="Accepted")
>
(select COUNT(purchasedItemCount) from receipts
where rewardsReceiptStatus="Rejected")
, "Accepted","Rejected") Status

```