

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

**Solution:**

```
select Brand_id,barcode,name,Receipt_id,dateScanned,(purchasedItemCount)
from df_Final_BrandReceUser
where monthScanned = 1.0 and yearScanned = 2021.0 and topBrand!='FALSE'
LIMIT 5
```

**Brand Names:**

Test brand @1612366101024

StarBucks

Test brand @1612366146176

Test brand @1612366146051

Test brand @1612366146827

- How does the ranking of the top 5 brands by receipts scanned for the recent month compare to the ranking for the previous month?
- When considering *average spend* from receipts with 'rewardsReceiptStatus' of 'Accepted' or 'Rejected', which is greater?

**Solution:**

SQL query below for RewardReceiptStatus 'Rejected'

```
select AVG(totalSpent) as totalSpent
from Receipts
```

where rewardsReceiptStatus = 'FINISHED' or 'ACCEPTED' = \$80.25

SQL query below for RewardReceiptStatus 'Rejected'

```
select AVG(totalSpent) as totalSpent
from Receipts
```

where rewardsReceiptStatus = 'REJECTED' = \$23.32

Average Spend from receipts with 'rewardReceiptStatus' of 'Accepted' =

\$80.85

Average Spend from receipts with 'rewardReceiptStatus' of 'Rejected' = \$23.32

Average spend of RewardReceiptStatus 'Accepted' is greater than the rewardReceiptStatus which is 'Rejected'.

- When considering *total number of items purchased* from receipts with 'rewardReceiptStatus' of 'Accepted' or 'Rejected', which is greater.

**Solution:**

SQL query below for RewardReceiptStatus 'Rejected'

```
select COUNT(purchasedItemCount)
```

```
from Receipts
```

```
where rewardsReceiptStatus = 'FINISHED' or 'ACCEPTED' = 518
```

SQL query below for RewardReceiptStatus 'Rejected'

```
select COUNT(purchasedItemCount)
```

```
from Receipts
```

```
where rewardsReceiptStatus = 'REJECTED' = 71
```

Total number of items purchased from receipts with 'rewardReceiptStatus' of 'Accepted' = 518

Total number of items purchased from receipts with 'rewardReceiptStatus' of 'Rejected' = 71

Average spend of RewardReceiptStatus 'Accepted' is greater than the rewardReceiptStatus which is 'Rejected'.

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

**Solution:**

```
select brand_id,barcode,name,UserId,max(totalSpent),CreateDate
```

```
from df_Final_BrandReceUser
```

where Createdate <= date('2021-01-03','start of month','2 Year') AND  
Createdate < date('2021-01-03','start of month')

### **Brand Name - Good Seasons**

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

#### **Solution:**

```
select brand_id,barcode,name,UserId,count(purchasedItemCount),CreateDate  
from df_Final_BrandReceUser
```

```
where Createdate >= date('2021-01-03','start of month','-6 months') AND  
Createdate < date('2021-01-03','start of month')
```

Solution:

### **Brand Name - Country Crock**