## SQL queries for question from Buisness Stakeholder

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

#### Solution

**SELECT** 

CASE

WHEN difference > 0 THEN 'Average accepted spend is greater'

WHEN difference < 0 THEN 'Average rejected spend is greater'

ELSE 'Both are equal'

**END AS Answer** 

**FROM** 

(SELECT (averageAcceptedSpend - averageRejectedSpend) AS difference FROM (SELECT

AVG(CASE when rewardsReceiptStatus = 'Accepted' THEN totalSpent ELSE 0 END) AS averageAcceptedSpend,

AVG(CASE when rewardsReceiptStatus = 'Rejected' THEN totalSpent ELSE 0 END) AS averageRejectedSpend

FROM Receipts));

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

#### **Solution**

**SELECT** 

**CASE** 

WHEN difference > 0 THEN 'Total accepted items is greater'

WHEN difference < 0 THEN 'Total rejected items is greater'

ELSE 'Both are equal'

**END AS Answer** 

**FROM** 

(SELECT (totalAcceptedItem - totalRejectedItem) AS difference

**FROM** 

(SELECT

sum(CASE

WHEN rewardsReceiptStatus = 'Accepted' THEN purchasedItemCount ELSE 0 END)

AS totalAcceptedItem,

sum(CASE

WHEN rewardsReceiptStatus = 'Rejected' THEN purchasedItemCount ELSE 0 END)

AS totalRejectedItem

FROM Receipts));

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

SELECT brand\_name , temp.TotalPrice FROM brands INNER JOIN

(SELECT barcode , sum(final\_price) AS TotalPrice FROM RewardsReceiptItemList WHERE receipt\_id IN

(SELECT receipt\_id FROM User receipts WHERE user\_id IN

(SELECT user\_id FROM User Status WHERE createdDate > date\_sub(now(),Interval 6 month))) GROUP BY barcode)

temp ON brands.barcode = temp.barcode ORDER BY temp.TotalPrice DESC LIMIT 1;

# (vi)Which brand has the most *transactions* among users who were created within the past 6 months?

SELECT brand\_name , temp.TotalNumBarcode FROM brands INNER JOIN

(SELECT barcode , sum(barcode) AS TotalNumBarcode FROM RewardsReceiptItemList WHERE receipt\_id IN

(SELECT receipt\_id FROM User receipts WHERE user\_id IN

(SELECT user\_id FROM User Status WHERE createdDate > date\_sub(now(),Interval 6 month))) GROUP BY barcode) temp

ON brands.barcode = temp.barcode
ORDER BY temp.TotalNumBarcode DESC LIMIT 1;