-- Question 1

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

SELECT TOP (5)

rewardsReceiptItemList\_description AS [Brand Name],

COUNT(id\_oid) AS [Number Of Receipt Scanned]

FROM receipts

WHERE rewardsReceiptItemList\_description IS NOT NULL

GROUP BY rewardsReceiptItemList\_description

ORDER BY COUNT(id\_oid) DESC

-- Question 2

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

/\*

SELECT A.RowNumber,

A.rewardsReceiptItemList\_description AS [Top 5 Brands Recent Month],

A.[Number Of Receipt Scanned] AS [Number Of Receipt Scanned Recent Month],

B.rewardsReceiptItemList\_description AS [Top 5 Brands Previous Month],

B.[Number Of Receipt Scanned] AS [Number Of Receipt Scanned Previous Month]

FROM

(

SELECT ROW\_NUMBER() OVER (ORDER BY K.[Number Of Receipt Scanned] DESC) AS [RowNumber],

K.\*

FROM

(

SELECT TOP (5)

rewardsReceiptItemList\_description,

COUNT(id\_oid) AS [Number Of Receipt Scanned]

FROM receipts

WHERE [createDate\_date]

BETWEEN DATEADD(MONTH, -1, CONVERT(DATE, GETDATE())) AND CONVERT(DATE, GETDATE())

ORDER BY COUNT(id\_oid) DESC OFFSET 0 ROWS

) AS K

) AS A

INNER JOIN

(

SELECT ROW\_NUMBER() OVER (ORDER BY J.[Number Of Receipt Scanned] DESC) AS [RowNumber],

J.\*

FROM

(

SELECT TOP (5)

rewardsReceiptItemList\_description,

COUNT(id\_oid) AS [Number Of Receipt Scanned]

FROM receipts

WHERE [createDate\_date]

BETWEEN DATEADD(MONTH, -2, CONVERT(DATE, GETDATE())) AND DATEADD(MONTH, -1, CONVERT(DATE, GETDATE()))

ORDER BY COUNT(id\_oid) DESC OFFSET 0 ROWS

) AS J

) AS B

ON (A.RowNumber = B.RowNumber)

\*/

-- Question 3

-- When considering average spend from receipts with 'rewardsReceiptStatus’ of ‘Accepted’ or ‘Rejected’, which is greater? : Finished Is Greater With AVerage Spend Of $81.16

SELECT TOP (1)

R.rewardsReceiptStatus AS [Reward Receipt Status],

AVG(totalSpent) AS [Average Spend]

FROM receipts AS R

WHERE R.rewardsReceiptStatus IN ( 'FINISHED', 'REJECTED' )

GROUP BY R.rewardsReceiptStatus

ORDER BY AVG(totalSpent) DESC

-- Question 4

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

SELECT TOP (1)

R.rewardsReceiptStatus AS [Reward Receipt Status],

SUM(rewardsReceiptItemList\_quantityPurchased) AS [Total Quantity Purchased]

FROM receipts AS R

WHERE R.rewardsReceiptStatus IN ( 'FINISHED', 'REJECTED' )

GROUP BY R.rewardsReceiptStatus

ORDER BY SUM(rewardsReceiptItemList\_quantityPurchased) DESC

-- Question 5

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

SELECT TOP (1)

rewardsReceiptItemList\_description AS [Brand Name],

SUM(totalSpent) AS [Total Spent]

FROM receipts AS R

WHERE (rewardsReceiptItemList\_description IS NOT NULL)

GROUP BY rewardsReceiptItemList\_description

ORDER BY SUM(totalSpent) DESC

/\*

SELECT TOP(1) rewardsReceiptItemList\_description AS [Brand Name], SUM(totalSpent) AS [Total Spent]

FROM receipts AS R

INNER JOIN users AS U

ON R.userId = U.oid

WHERE (U.createdDate BETWEEN CONVERT(DATE, DATEADD(MONTH,-6,GETDATE())) AND CONVERT(DATE, GETDATE()))

AND (rewardsReceiptItemList\_description IS NOT NULL)

GROUP BY rewardsReceiptItemList\_description

ORDER BY SUM(totalSpent) DESC

\*/

-- Question 6

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

SELECT TOP (2)

rewardsReceiptItemList\_description AS [Brand Name],

COUNT(id\_oid) AS [Number Of Transactions]

FROM receipts

WHERE rewardsReceiptItemList\_description IS NOT NULL

GROUP BY rewardsReceiptItemList\_description

ORDER BY COUNT(id\_oid) DESC

/\*

SELECT TOP(1) rewardsReceiptItemList\_description AS [Brand Name], COUNT(id\_oid) AS [Number Of Transactions]

FROM receipts AS R

INNER JOIN users AS U

ON R.userId = U.oid

WHERE (U.createdDate BETWEEN CONVERT(DATE, DATEADD(MONTH,-6,GETDATE())) AND CONVERT(DATE, GETDATE()))

AND (rewardsReceiptItemList\_description IS NOT NULL)

GROUP BY rewardsReceiptItemList\_description

ORDER BY COUNT(id\_oid) DESC

\*/