There are 4 tables given as mentioned below,

1. Brands
2. Receipt\_items
3. Receipts
4. Users

The relationship of these tables is based on the column/features available in these data tables.

1. Which brand saw the most dollars spent in the month of June?

Pepsi, with total dollars spent in the month of June being USD 983

Source Code:

SELECT b.NAME, sum(TOTAL\_FINAL\_PRICE) as Dollar\_Spending FROM

(((SELECT PURCHASE\_DATE, ID FROM Fetch\_data.dbo.receipts

WHERE REWARDS\_RECEIPT\_STATUS != 'REJECTED') r

INNER JOIN

(SELECT TOTAL\_FINAL\_PRICE, BRAND\_CODE, REWARDS\_RECEIPT\_ID FROM Fetch\_data.dbo.receipt\_items) ri

ON r.ID = ri.REWARDS\_RECEIPT\_ID)

INNER JOIN

(SELECT BRAND\_CODE, NAME, CATEGORY\_CODE FROM Fetch\_data.dbo.brands) b

ON ri.BRAND\_CODE = b.BRAND\_CODE)

WHERE MONTH(r.PURCHASE\_DATE) = 06

GROUP BY b.NAME

ORDER BY Dollar\_Spending DESC

1. Which user spent the most money in the month of August?



Source Code:

SELECT u.ID, SUM(r.TOTAL\_SPENT) as Money\_Spent FROM

((SELECT \* FROM Fetch\_data.dbo.users) u

INNER JOIN

(SELECT PURCHASE\_DATE, USER\_ID, TOTAL\_SPENT FROM Fetch\_data.dbo.receipts

WHERE REWARDS\_RECEIPT\_STATUS != 'REJECTED') r

ON u.ID = r.USER\_ID)

WHERE MONTH(r.PURCHASE\_DATE) = 08

GROUP BY u.ID

ORDER BY Money\_Spent DESC

1. What user bought the most expensive item?

Table

Description automatically generated

SELECT u.ID, u.GENDER, u.STATE, u.SIGN\_UP\_PLATFORM, U.SIGN\_UP\_SOURCE, ri.TOTAL\_FINAL\_PRICE, ri.BRAND\_CODE

FROM Fetch\_data.dbo.users u

INNER JOIN Fetch\_data.dbo.receipts r ON u.ID = r.USER\_ID

INNER JOIN Fetch\_data.dbo.receipt\_items ri ON r.ID = ri.Rewards\_Receipt\_ID

WHERE ri.TOTAL\_FINAL\_PRICE = (SELECT MAX(TOTAL\_FINAL\_PRICE) FROM Fetch\_data.dbo.receipt\_items); SELECT u.ID, u.GENDER, u.STATE, u.SIGN\_UP\_PLATFORM, U.SIGN\_UP\_SOURCE, ri.TOTAL\_FINAL\_PRICE, ri.BRAND\_CODE

FROM Fetch\_data.dbo.users u

INNER JOIN Fetch\_data.dbo.receipts r ON u.ID = r.USER\_ID

INNER JOIN Fetch\_data.dbo.receipt\_items ri ON r.ID = ri.Rewards\_Receipt\_ID

WHERE ri.TOTAL\_FINAL\_PRICE = (SELECT MAX(TOTAL\_FINAL\_PRICE) FROM Fetch\_data.dbo.receipt\_items);

1. What is the name of the most expensive item purchased?

Graphical user interface, text

Description automatically generated

SELECT \* FROM Fetch\_data.dbo.receipt\_items

WHERE TOTAL\_FINAL\_PRICE = (SELECT MAX(TOTAL\_FINAL\_PRICE) FROM Fetch\_data.dbo.receipt\_items)

1. How many users scanned in each month?

Table

Description automatically generated

SELECT month, COUNT(\*) as Scanned\_Users

FROM (SELECT MONTH(DATE\_SCANNED) as month, \* FROM Fetch\_data.dbo.receipts) s

GROUP BY month

ORDER BY month;