FETCH SQL QUERIES

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

SELECT TOP 1 C.BRAND_CODE,SUM(A.TOTAL_SPENT) AS DOLLARS_SPENT FROM RECEIPTS A
JOIN RECEIPT_ITEMS B ON A.ID=B.REWARDS_RECEIPT_ID
JOIN brands$ C ON B.BRAND_CODE=C.BRAND_CODE
WHERE DATEPART(MONTH,A.PURCHASE_DATE)=6
GROUP BY C.BRAND_CODE
ORDER BY SUM(A.TOTAL_SPENT) DESC

OUTPUT:

BRAND_CODE	DOLLARS_SPENT
MARIE CALLENDER'S	34571.97

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

SELECT TOP 1 USER_ID,SUM(TOTAL_SPENT) AS TOTAL_SPENT_BY_MONTH FROM receipts
WHERE DATEPART(MONTH,PURCHASE_DATE)=8
GROUP BY USER_ID
ORDER BY SUM(TOTAL_SPENT) DESC

OUTPUT:

USER_ID	TOTAL_SPENT_BY_MONTH
609ab37f7a2e8f2f95ae968f	157739.14

3. What user bought the most expensive item?

SELECT TOP 1 A.USER_ID,A.ID AS RECEIPT_ID,B.REWARDS_RECEIPT_ITEM_ID AS
ITEM_ID,SUM(TOTAL_FINAL_PRICE)/SUM(QUANTITY_PURCHASED) AS ITEM_COST
FROM RECEIPTS A LEFT JOIN RECEIPT_ITEMS B
ON A.ID=B.REWARDS_RECEIPT_ID
GROUP BY A.USER_ID,A.ID,B.REWARDS_RECEIPT_ITEM_ID
HAVING SUM(QUANTITY_PURCHASED)>0
ORDER BY SUM(TOTAL_FINAL_PRICE)/SUM(QUANTITY_PURCHASED) DESC

OUTPUT:

USER_ID	RECEIPT_ID	ITEM_ID	ITEM_COST
617376b8a9619d488190e0b6	62c6300d0a72315a3e1b202e	deab389b6f6ecfef51d595ab07c40e51	31005.99

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

SELECT TOP 1 A.USER_ID,A.ID AS RECEIPT_ID,B.REWARDS_RECEIPT_ITEM_ID AS
ITEM_ID,B.BRAND_CODE,C.NAME AS
ITEM_NAME,SUM(TOTAL_FINAL_PRICE)/SUM(QUANTITY_PURCHASED) AS ITEM_COST
FROM RECEIPTS A LEFT JOIN RECEIPT_ITEMS B
ON A.ID=B.REWARDS_RECEIPT_ID
LEFT JOIN [dbo].[brands$] C
ON B.BRAND_CODE=C.BRAND_CODE
GROUP BY A.USER_ID,A.ID,B.REWARDS_RECEIPT_ITEM_ID,B.BRAND_CODE,C.NAME
HAVING SUM(QUANTITY_PURCHASED)>0
ORDER BY SUM(TOTAL_FINAL_PRICE)/SUM(QUANTITY_PURCHASED) DESC

OUTPUT:

USER_ID	RECEIPT_ID	ITEM_ID	BRAND_CODE	ITEM_NAME	ITEM_COST
617376b8a9619d488190e0b6	62c6300d0a72315a3e1b202e	deab389b6f6ecfef51d595ab07c40e51	STARBUCKS	Starbucks	31005.99

5. How many users scanned in each month?

SELECT DATEPART(YEAR,DATE_SCANNED) YEAR_OF_SCANNED,
DATEPART(MONTH,DATE_SCANNED) MONTH_OF_SCAN,
COUNT(DISTINCT USER_ID) AS NUMBER_OF_USERS
FROM receipts
GROUP BY
DATEPART(YEAR,DATE_SCANNED),
DATEPART(MONTH,DATE_SCANNED)
ORDER BY
DATEPART(YEAR,DATE_SCANNED) DESC,
DATEPART(MONTH,DATE_SCANNED)

OUTPUT:

YEAR_OF_SCANNED	MONTH_OF_SCAN	NUMBER_OF_USERS
2023	1	76
2022	1	87
2022	2	83
2022	3	87
2022	4	87
2022	5	84
2022	6	84
2022	7	84
2022	8	84
2022	9	86
2022	10	88
2022	11	88
2022	12	96
2021	1	9
2021	2	17
2021	3	23
2021	4	32
2021	5	38
2021	6	38
2021	7	47
2021	8	53
2021	9	61
2021	10	74
2021	11	81
2021	12	89