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BAN5573

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**Interview Case**

**Business Questions**

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

SELECT b."NAME", COUNT(\*) AS num\_scans

FROM Trans t

JOIN Item i ON t."OID" = i."OID"

LEFT JOIN brands b ON i.barcode = b.barcode

WHERE t."DATESCANNED"::timestamp with time zone >= DATE\_TRUNC('month', CURRENT\_DATE)::timestamp with time zone

GROUP BY b."NAME"

ORDER BY num\_scans DESC

LIMIT 5;

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

SELECT b."NAME", COUNT(DISTINCT t."userId") AS num\_users

FROM Trans t

JOIN Item i ON t."OID" = i."OID"

JOIN brands b ON i.barcode = b.barcode

JOIN user u ON t."userId" = u."USERID"

WHERE u."CREATEDATE" >= DATE\_TRUNC('month', CURRENT\_DATE - INTERVAL '6 months')

GROUP BY b."NAME"

ORDER BY num\_users DESC

LIMIT 1;

1. When considering average spend from receipts with rewardsReceiptStatus of Accepted or Rejected, which is greater?

SELECT AVG("totalSpent") AS avg\_total\_spent\_finished, 'FINISHED' AS rewards\_receipt\_status

FROM trans

WHERE "rewardsReceiptStatus" = 'FINISHED'

UNION

SELECT AVG("totalSpent") AS avg\_total\_spent\_rejected, 'REJECTED' AS rewards\_receipt\_status

FROM trans

WHERE "rewardsReceiptStatus" = 'REJECTED';

1. When considering total number of items purchased from receipts with rewardReceiptsStatus of Accepted or Rejected, which is greater ?

SELECT COUNT("purchasedItemCount") AS total\_spent\_finished, 'FINISHED' AS rewards\_receipt\_status

FROM trans

WHERE "rewardsReceiptStatus" = 'FINISHED'

UNION

SELECT COUNT("purchasedItemCount") AS total\_spent\_rejected, 'REJECTED' AS rewards\_receipt\_status

FROM trans

WHERE "rewardsReceiptStatus" = 'REJECTED';