**Closed-ended questions:**

* **What are the top 5 brands by receipts scanned among users 21 and over?**

**SQL Query :**

WITH cust\_tenure AS (

SELECT (FINAL\_SALE) , barcode,

DATE\_DIFF(date(current\_date()), date(created\_date), MONTH) AS  acct\_tenure

FROM transaction t JOIN user u ON

t.user\_id=u.id)

SELECT brand, SUM(SAFE\_CAST(FINAL\_SALE as decimal)) sales\_amount

FROM cust\_tenure t

JOIN products p ON t.barcode=p. barcode

WHERE acct\_tenure>=6

GROUP BY brand

ORDER BY sales\_amount DESC

LIMIT 5;

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* **What are the top 5 brands by sales among users that have had their account for at least six months?**

SQL Query:

WITH cust\_over21 AS (

SELECT receipt\_id, barcode,

DATE\_DIFF(date(current\_date()), date(birth\_date), MONTH) AS age

FROM transaction t JOIN user u ON

t.user\_id=u.id)

SELECT brand, COUNT(DISTINCT receipt\_id) receipt\_count

FROM cust\_over21 t

JOIN products p ON t. barcode=p. barcode

WHERE age>=21

GROUP BY brand

ORDER BY receipt\_count DESC

LIMIT 5;

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**Open-ended questions: for these, make assumptions and clearly state them when answering the question.**

* **Which is the leading brand in the Dips & Salsa category?**

**SQL Query:**

SELECT brand, SUM(SAFE\_CAST(FINAL\_SALE as decimal)) sales\_amount

 FROM products  p

join transaction t

on t.BARCODE = p.BARCODE

WHERE CATEGORY\_2= 'Dips & Salsa'

GROUP BY brand

ORDER BY sales\_amount DESC

LIMIT 1

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