

## Closed-ended questions:

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

```
SELECT
  P.brand,
  COUNT(DISTINCT T.receipt_id) AS receipts_scanned
FROM
  Transactions T
JOIN
  Users U ON T.user_id = U.id
JOIN
  Products P ON T.barcode = P.barcode
WHERE
  DATEDIFF(CURRENT_DATE, U.birth_date) / 365 >= 21
GROUP BY
  P.brand
ORDER BY
  receipts_scanned DESC
LIMIT 5;
```

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

```
SELECT
  P.brand,
  SUM(T.sale) AS total_sales
FROM
  Transactions T
JOIN
  Users U ON T.user_id = U.id
JOIN
  Products P ON T.barcode = P.barcode
WHERE
  DATEDIFF(CURRENT_DATE, U.created_date) >= 180 -- Users with accounts older than 6 months
GROUP BY
  P.brand
ORDER BY
  total_sales DESC
LIMIT 5;
```

## 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?

```
SELECT
    P.brand,
    SUM(T.sale) AS total_sales
FROM
    Transactions T
JOIN
    Products P ON T.barcode = P.barcode
WHERE
    P.category_2 = 'Dips & Salsa'
GROUP BY
    P.brand
ORDER BY
    total_sales DESC
LIMIT 1;
```