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

```
WITH Merged_table AS (
  SELECT*
  FROM Users u
  JOIN Transactions t ON u.id = t.user id
  JOIN Products p ON p.barcode = t.barcode
  WHERE p.barcode IS NOT NULL
    AND t.barcode IS NOT NULL
)
SELECT
  brand.
  SUM(final sale) AS total sales
FROM Merged table
WHERE created date <= DATE('now', '-6 months')
  AND brand IS NOT NULL
GROUP BY brand
ORDER BY total sales DESC
LIMIT 5;
```

What is the percentage of sales in the Health & Wellness category by generation?

```
WITH Merged table AS (
  SELECT*
  FROM Users u
  JOIN Transactions t ON u.id = t.user id
  JOIN Products p ON p.barcode = t.barcode
  WHERE p.barcode IS NOT NULL
    AND t.barcode IS NOT NULL
),
Category sale AS (
  SELECT
    CASE
      WHEN CAST(strftime("%Y", birth date) AS INTEGER) BETWEEN 1997 AND 2012 THEN 'Generation Z'
      WHEN CAST(strftime('%Y', birth_date) AS INTEGER) BETWEEN 1981 AND 1996 THEN 'Millennials'
      WHEN CAST(strftime("%Y", birth date) AS INTEGER) BETWEEN 1965 AND 1980 THEN 'Generation X'
      WHEN CAST(strftime('%Y', birth date) AS INTEGER) BETWEEN 1946 AND 1964 THEN 'Baby Boomers'
      ELSE 'Others'
    END AS generation,
    SUM(final sale) AS total sale
  FROM Merged table
  WHERE category_1 = 'Health & Wellness'
  GROUP BY generation
),
All sale AS (
  SELECT SUM(final sale) as all sale
  FROM Merged table
  WHERE category_1 = 'Health & Wellness'
SELECT generation, ROUND(total sale * 100/(SELECT all sale FROM All sale), 2) AS percentage
FROM Category_sale;
```

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

My assumptions: The **leading brand** is identified as the one with the highest total sales. In cases where multiple brands have similar sales figures, the total quantity sold, transaction count, and average sale per transaction are used to further refine the ranking.

```
SELECT
  p.brand,
  SUM(t.final_sale) AS total_sales,
  SUM(t.final_quantity) AS total_quantity_sold,
  COUNT(DISTINCT t.receipt_id) AS transaction_ count,
  SUM(t.final_sale)/COUNT(DISTINCT t.receipt_id) AS average_sale_per_transaction
FROM Transactions t
JOIN Products p ON t.barcode = p.barcode
WHERE p.barcode IS NOT NULL
    AND t.barcode IS NOT NULL
    AND p.category_2 = 'Dips & Salsa'
GROUP BY p.brand
ORDER BY
       total_sales DESC,
       total quantity sold DESC,
       transaction_count DESC,
       average sale per transaction DESC
LIMIT 1;
```