```sql
-- revou-project-sql-416615.Vending_Machine_Cleaned
-- H1 If we increase the number of vending machines in locations with the highest
sales, then sales will increase
-- Laporan penjualan bulanan
SELECT
  EXTRACT(YEAR FROM TransDate) AS Year,
  EXTRACT(MONTH
  FROM
    TransDate) AS Month,
  SUM(RQty) AS MonthlySales
FROM
  revou-project-sql-416615.Vending_Machine_Cleaned.Sales
GROUP BY
  Year,
  Month
ORDER BY
  Year,
  Month;

-- laporan penjualan harian
SELECT
  EXTRACT(YEAR
  FROM
    TransDate) AS Year,
  EXTRACT(MONTH
  FROM
    TransDate) AS Month,
  EXTRACT(DAY
  FROM
    TransDate) AS Day,
  SUM(RQty) AS DailySales
FROM
  revou-project-sql-416615.Vending_Machine_Cleaned.Sales
GROUP BY
  Year,
  Month,
  Day
ORDER BY
  Year,
  Month,
  Day;

-- Laporan penjualan tiap lokasi
SELECT
  Location,
  SUM(RQty) AS QuantitySold,
  SUM(LineTotal) AS TotalRevenue,
  COUNT(TRANSACTION) AS TotalTransactions
FROM
  revou-project-sql-416615.Vending_Machine_Cleaned.Sales
GROUP BY
  1
ORDER BY
  QuantitySold DESC;

-- Laporan penjualan tiap mesin
SELECT
  Location,
```

```sql
    Device_ID,
    SUM(RQty) AS QuantitySold,
    SUM(LineTotal) AS TotalRevenue,
    COUNT(TRANSACTION) AS TotalTransactions
FROM
    revou-project-sql-416615.Vending_Machine_Cleaned.Sales
GROUP BY
    1,
    2
ORDER BY
    QuantitySold DESC;

-- penjualan 10 produk paling laris (H2)
SELECT
    Product,
    SUM(RQty) AS QuantitySold,
    SUM(LineTotal) TotalRevenue
FROM
    revou-project-sql-416615.Vending_Machine_Cleaned.Sales
GROUP BY
    Product
ORDER BY
    2 DESC
LIMIT
    10;

-- penjualan kategori paling laris
SELECT
    Category,
    Count(Distinct (Product)) VarProduct,
    SUM(LineTotal) AS TotalRevenue,
    COUNT(TRANSACTION) AS TotalTransactions
FROM
    revou-project-sql-416615.Vending_Machine_Cleaned.Sales
GROUP BY
    1
ORDER BY
    2 DESC,
    3 DESC;

-- penjualan kategori paling laris
SELECT
    Category,
    Product,
    SUM(LineTotal) AS TotalRevenue,
    COUNT(TRANSACTION) AS TotalTransactions
FROM
    revou-project-sql-416615.Vending_Machine_Cleaned.Sales
GROUP BY
    1,
    2
ORDER BY
    TotalRevenue DESC,
    TotalTransactions DESC;

-- 3 Produk paling laris untuk setiap category di masing-masing mesin
WITH
    Sales_CTE AS (
```

```sql
SELECT
    Category,
    Device_ID,
    Product,
    SUM(RQty) AS QuantitySold
FROM
    revou-project-sql-416615.Vending_Machine_Cleaned.Sales
GROUP BY
    Category,
    Device_ID,
    Product ),
  Ranking_CTE AS (
SELECT
    Device_ID,
    Category,
    Product,
    QuantitySold,
    ROW_NUMBER() OVER (PARTITION BY Category, Device_ID ORDER BY QuantitySold DESC)
AS Rank
  FROM
    Sales_CTE )
SELECT
  Device_ID,
  Category,
  Product,
  QuantitySold
FROM
  Ranking_CTE
WHERE
  Rank <= 3
ORDER BY
  QuantitySold DESC,
  Category,
  Device_ID;
```