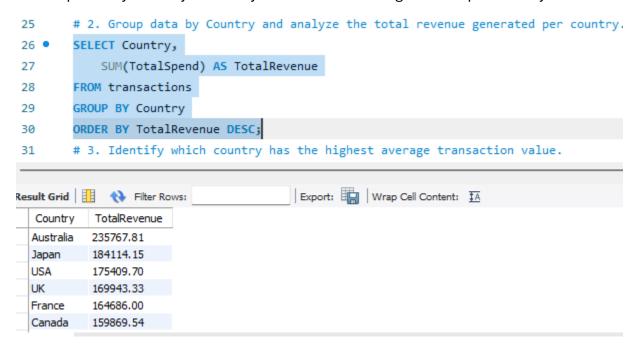
4.1 Customer Insights:

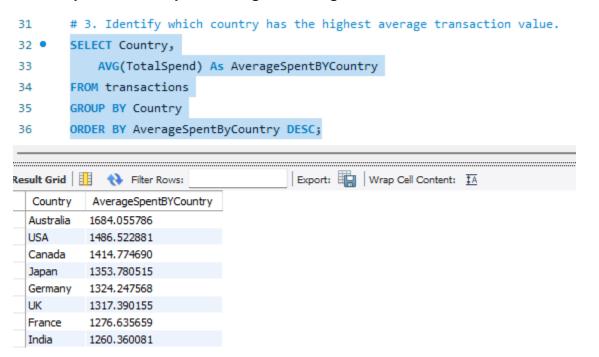
1. Calculate the total amount spent by each customer and find the top 10 spenders.

```
1 •
        CREATE DATABASE EcommerceDB;
  2 •
        USE EcommerceDB;
  3 • ○ CREATE TABLE transactions (
            CustomerID INT,
            OrderID INT PRIMARY KEY,
  5
            Product VARCHAR(255),
  6
  7
            Quantity INT,
            UnitPrice DECIMAL(10, 2),
  8
            PurchaseDate DATETIME,
  9
            Country VARCHAR(255),
 10
            TotalSpend DECIMAL(10, 2)
 11
 12
        );
        # DATA Imported check
 13
        SELECT *
 14 •
        FROM transactions;
 15
        # 4. Aggregated Analysis: Extra grad
 16
        # 4.1 Customer Insights:
 17
 18
         # 1. Calculate the total amount spent by each customer and find the top 10 spenders.
         SELECT CustomerID,
 19 •
            sum(TotalSpend) As TotalAmount
 20
         FROM transactions
 21
         GROUP BY CustomerID
 22
         ORDER BY TotalAmount DESC
 23
         limit 10;
 24
         # 2. Group data by Country and analyze the total revenue generated per country.
                                         Export: Wrap Cell Content: A Fetch rows:
CustomerID TotalAmount
   1626
             9916.61
   1385
             9699.73
   1633
             8940.54
   1915
             8934.78
   1161
             8658.97
   1378
             7857.90
Result 2 v
```

2. Group data by Country and analyze the total revenue generated per country.

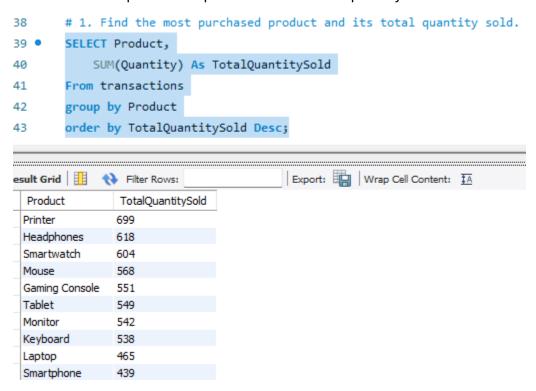


3. Identify which country has the highest average transaction value.

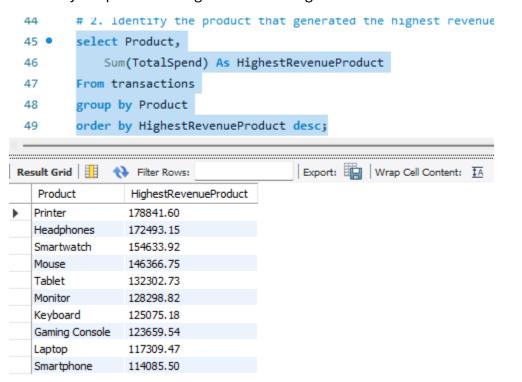


4.2 Product Analysis:

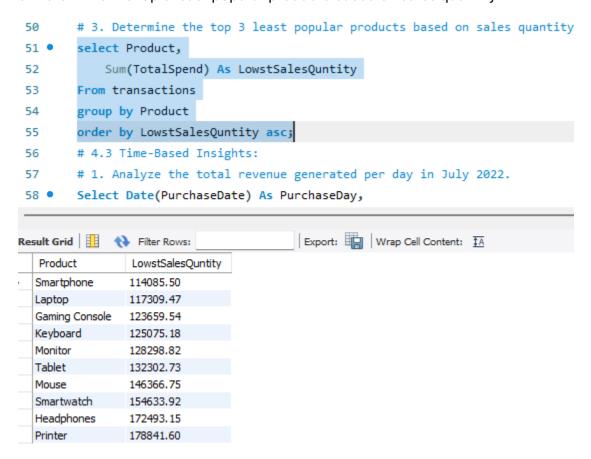
1. Find the most purchased product and its total quantity sold.



2. Identify the product that generated the highest revenue.

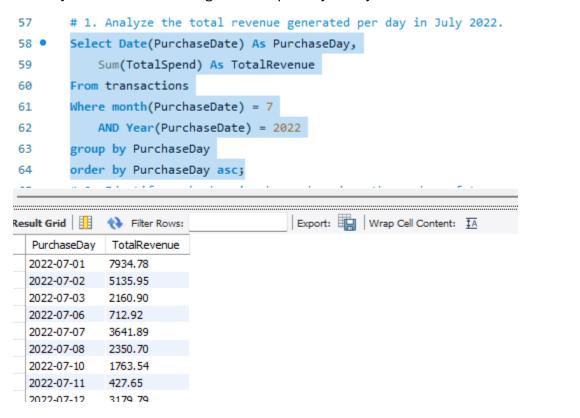


3. Determine the top 3 least popular products based on sales quantity.



4.3 Time-Based Insights:

1. Analyze the total revenue generated per day in July 2022.



2. Identify peak shopping hours based on the number of transactions.

```
# 2. Identify peak shopping hours based on the number of transactions.
        # NO Hour Data Provided in the dataset
 66
        # 3. Find the day with the highest total revenue.
 67
        Select Date(PurchaseDate) As PurchaseDay,
 68 •
            Sum(TotalSpend) As TotalRevenue
 69
        From transactions
 70
        group by PurchaseDay
 71
        order by TotalRevenue desc
 72
        limit 1;
 73
        # 5. Advanced Insights: Extra grad
 74
        # 1. Create a column for total spend per transaction (Quantity * UnitPrice).
 75
        # Done in Python
 76
        # 2. Use quantites to identify the top 10% of transactions based on total spend.
 77
        # Analyze purchasing trends by country:
 78
        # (1) Identify the most popular product in each country.
 79
        # (2) Determine the average order value per country.
 80
Result Grid Filter Rows:
                                        Export: Wrap Cell Content: A Fetch rows:
   PurchaseDay
              TotalRevenue
  2022-01-30
              19088.86
```