SQL PROJECT

Basic Analysis

- 1. Find the total revenue (sum of Quantity * UnitPrice) generated from all invoices.
- 2. Count the number of unique products (StockCode) sold.
- 3. Identify the total number of invoices in the dataset.
- 4. Find the total quantity of products sold for each StockCode and sort them in descending order.
- 5. Count the number of transactions (distinct InvoiceNo) per customer (CustomerID).

Customer Analysis

- 1. Identify the top 5 customers who have generated the highest revenue.
- 2. Find the average number of products purchased per customer.
- 3. Retrieve all transactions made by the customer who has purchased the most products in total.
- 4. Identify the country with the highest number of unique customers.
- 5. Find the customer who made the maximum number of transactions.

Product-Based Analysis

- 1. List the top 5 most frequently purchased products (based on total quantity sold).
- 2. Find the product that generated the highest revenue.
- 3. Identify products that have been sold in exactly 10 or more different invoices.
- 4. Count how many times each product has been sold and list those that have been purchased more than 5 times.
- 5. Retrieve all distinct product descriptions purchased by a specific customer (CustomerID = 17850).

Time-Based Analysis

- 1. Find the total revenue generated per month.
- 2. Identify the hour of the day when the highest number of transactions occurred.
- 3. Count the number of invoices generated per day.
- 4. Identify the date when the highest number of products were sold.
- 5. Find the number of transactions that happened before 12 PM vs. after 12 PM.