# SQL Data Analysis Report - Ecommerce Dataset

## 1. Objective

The objective of this task is to perform basic SQL data analysis using the Ecommerce dataset. The dataset was imported into SQLite Online and explored using various SQL commands to understand its structure and extract insights.

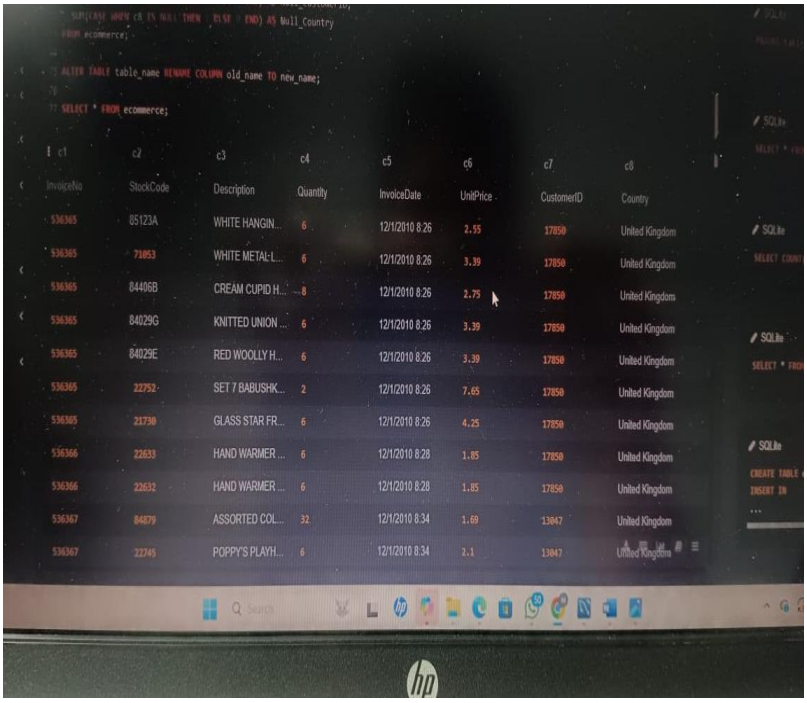
## 2. Dataset Overview

Dataset Name: Ecommerce.csv
Number of Records: 8
Number of Columns: 8
Columns include: InvoiceNo, StockCode, Description, Quantity, InvoiceDate, UnitPrice, CustomerID, and Country.

## 3. SQL Queries Executed

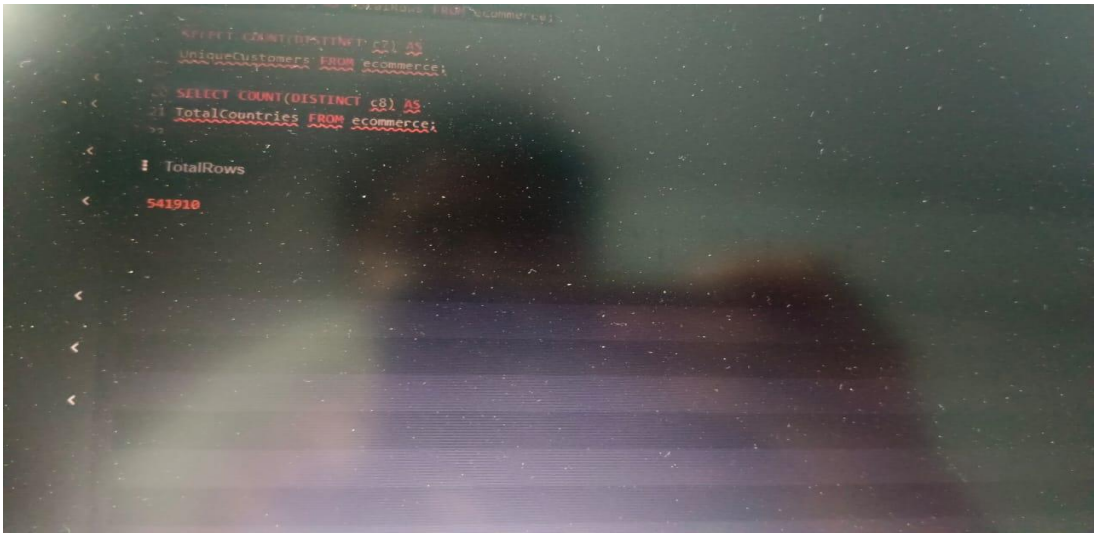
• Display all records

```
SELECT * FROM ecommerce;
```



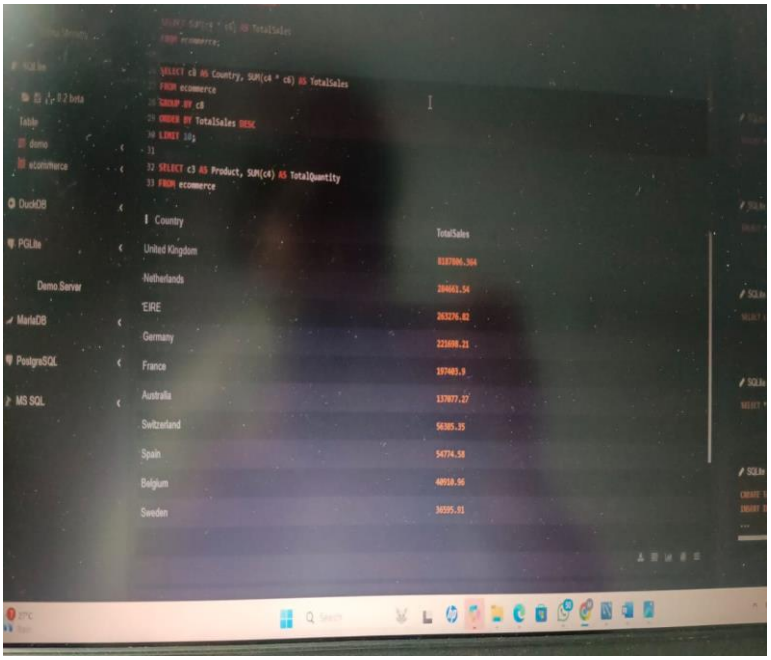

• Count total records:

```
SELECT COUNT(*) AS total_rows FROM ecomm
```




• Display distinct countries

```
SELECT DISTINCT Country FROM ecommerce;
```

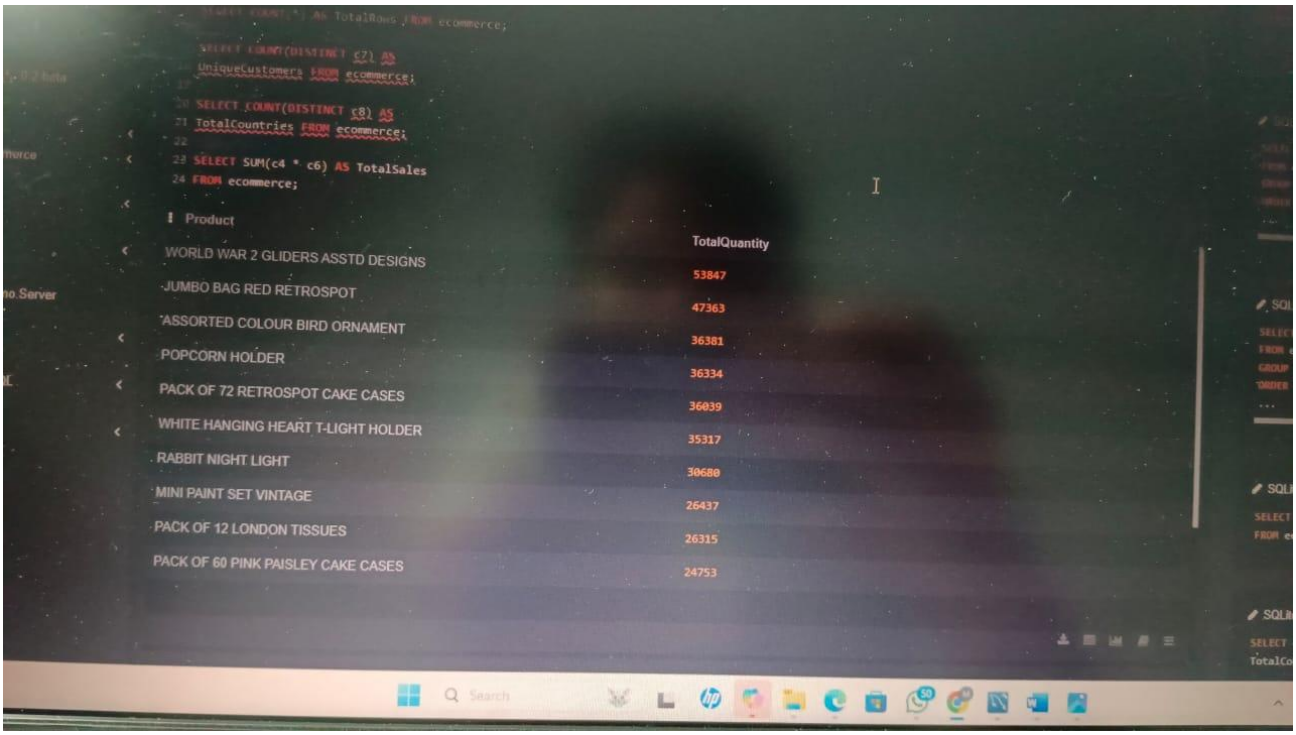



• Find total quantity per country

```
SELECT Country, SUM(Quantity) AS Total_Quantity FROM ecommerce GROUP BY Country;
```

• Find average unit price per country

```
SELECT Country, AVG(UnitPrice) AS Avg_Price FROM ecommerce GROUP BY Country;
```




• Filter records by country

```
SELECT * FROM ecommerce WHERE Country = 'United Kingdom';
```

• Sort by highest unit price

```
SELECT * FROM ecommerce ORDER BY UnitPrice DESC;
```

## 4. Findings and Observations

1. The Ecommerce dataset contains a total of 8 records with various transaction details.
2. Countries represented in the dataset include the United Kingdom and other regions.
3. The United Kingdom had the highest number of transactions in this dataset.
4. Average unit prices vary slightly by country, with some products priced higher than others.
5. Sorting the data helped identify products with the highest and lowest prices.
6. The dataset is small but sufficient to demonstrate SQL skills such as SELECT, GROUP BY, WHERE, and ORDER BY clauses.

## 5. Conclusion

The SQL analysis was successfully performed on the Ecommerce dataset using SQLite Online. The exercise helped in understanding how to import data, explore tables, and execute SQL queries for analytical insights. All objectives of Task 4 were successfully achieved.