

# Exploratory Data Analysis (EDA) and Business Insights:

EDA was performed on the following datasets using a python script:

- 1) Customers.csv
- 2) Products.csv
- 3) Transactions.csv

Based on the EDA the following business insights are observed:

- 1) The Total Revenue Generated: \$689995.56

```
=== Total Revenue ===  
Total Revenue Generated: $689995.56
```

- 2) Top 5 Customers by revenue:

```
=== Top 5 Customers by Revenue ===  
+-----+-----+-----+  
|      | CustomerID | Total Revenue |  
+=====+=====+=====+  
| 0 | C0141      | 10673.9      |  
+-----+-----+-----+  
| 1 | C0054      | 8040.39      |  
+-----+-----+-----+  
| 2 | C0065      | 7663.7       |  
+-----+-----+-----+  
| 3 | C0156      | 7634.45      |  
+-----+-----+-----+  
| 4 | C0082      | 7572.91      |  
+-----+-----+-----+
```

### 3)Most Purchased Products:

```
=== Most Purchased Products ===
```

|   | ProductID | Total Quantity |
|---|-----------|----------------|
| 0 | P059      | 46             |
| 1 | P054      | 46             |
| 2 | P029      | 45             |
| 3 | P079      | 43             |
| 4 | P061      | 43             |

### 4)Revenue By Region:

```
=== Revenue by Region ===
```

|   | Region        | Total Revenue |
|---|---------------|---------------|
| 0 | South America | 219353        |
| 1 | Europe        | 166255        |
| 2 | North America | 152313        |
| 3 | Asia          | 152075        |