Task 1: Exploratory Data Analysis (EDA)

Summary of Analysis

The EDA provided key insights into customer demographics, product performance, and transaction patterns. The following are the top insights derived:

Business Insights

1. Region-wise Distribution:

- Most customers are concentrated in North America and Europe, indicating strong market penetration in these regions.
- Regions such as South America and Africa have lower customer counts, presenting potential growth opportunities.

2. Top Products by Revenue:

- The top 3 products contributing to revenue are Product A, Product B, and Product C.
- o Focus on promoting these products further to maximize profits.

3. Seasonal Trends:

- Revenue peaks in **November and December**, indicating a spike in sales during the holiday season.
- o Tailor marketing campaigns around this time to capitalize on seasonal demand.

4. Category Performance:

- The **Electronics** category generates the highest revenue, followed by **Home Appliances**.
- o Consider expanding the product portfolio in these categories.

5. Customer Lifetime Value:

The top 10 customers contribute significantly to the total revenue. Retention strategies for these high-value customers can improve profitability.