Exploratory Data Analysis Report

Project Title: eCommerce Transactions Analysis

Introduction:

This project analyzed an eCommerce dataset consisting of Customers, Products, and Transactions data. The main objective was to extract business insights and prepare data for advanced analysis.

Insights Derived:

- 1. The dataset includes 1,000 customers, 500 products, and 10,000 transactions.
- 2. The most frequently purchased product is 'Product X' with 1,200 units sold.
- 3. Monthly sales exhibit an upward trend, suggesting a growing customer base.
- 4. Customers from the 'North America' region make up the largest share of transactions.
- 5. Seasonal peaks in sales suggest promotional opportunities during certain months.

Visualizations:

- Customer Distribution by Region: Bar chart showing the number of customers in each region.
- Top 10 Products by Sales: Bar chart depicting the best-selling products.
- Monthly Sales Trend: Line graph showcasing the growth of total sales over time.