Business Insights from Exploratory Data Analysis

The following insights were derived from the eCommerce dataset using exploratory data analysis:

1. Regional Customer Distribution:

- South America stands out as the region with the highest customer count, showcasing a large potential market.
- o In contrast, Asia has the least customer count, suggesting potential for growth or marketing efforts in this region.

2. Revenue by Product Category:

- The "Books" category generates the highest total revenue, indicating its popularity and profitability.
- o On the other hand, the "Home Décor" category has the least total revenue, suggesting underperformance or limited demand.

3. Monthly Revenue Trends:

- The analysis reveals a seasonal pattern in revenue. July experienced the highest monthly revenue, which might indicate a seasonal demand or specific promotional campaigns.
- o November showed the least monthly revenue, which could indicate a potential opportunity for improved marketing strategies during this period.

4. Transaction Insights:

• The average purchase value per transaction is approximately \$689.99, highlighting customer spending behavior.

5. Popular Products:

o Among all products, the "ActiveWear Smartwatch" emerged as the most purchased product, signifying its high demand and customer preference.

Key Takeaways for Business Strategy:

- Focus on strengthening the supply chain and marketing efforts in South America to further capitalize on its high customer base.
- Explore strategies to boost sales in underperforming regions like Asia and product categories like "Home Décor."
- Leverage seasonal patterns by creating targeted promotions for low-revenue months, particularly in November.
- Invest in the "Books" category and the "ActiveWear Smartwatch" to maintain their profitability and popularity.