EDA Report:

Observations

- 1. South America Leads in Customer Count
- 2. Balanced Distribution Across Europe, North America, and Asia regions.
- 3. ActiveWear Smartwatch has the highest sales in terms of quantity, making it the most popular product among customers.
- 4. SoundWave Headphones and HomeSense Desk Lamp closely follow in sales, indicating strong demand for tech and home-related items.
- 5. The sales distribution among the top 10 products is relatively even, with no extreme outliers.
- 6. The majority of the top-selling products are either tech gadgets or utility-focused items.
- 7. The highest sales peak occurs in July, indicating this is the busiest month for revenue generation.
- 8. A noticeable dip in sales is observed in June and December, marking periods of lower revenue.
- 9. The start of the year (January) begins with strong sales, followed by a slight decline in subsequent months.
- 10. There's a sharp recovery in November, suggesting the start of holiday shopping, with December improving compared to October.
- 11. Electronics dominance suggests a high consumer demand for tech products and/or higher price points per item
- 12. Books' strong performance indicates a solid customer base for reading materials, possibly due to competitive pricing or high purchase frequency
- 13. The relatively narrow revenue spread (approximately \$50,000) between highest and lowest performing categories suggests balanced category management

Analysis

- 1. Market Focus: The company may have a strong presence in South America compared to other regions.
- 2. Marketing Opportunity: The company could capitalize on the popularity of tech gadgets like the Smartwatch and Headphones by bundling them with complementary products to boost sales.

- 3. Expanding the product line in the tech and home accessory categories could further enhance sales.
- 4. While tech dominates, items like Cookbooks and Rugs suggest demand in lifestyle categories, which can be leveraged for cross-selling opportunities.
- 5. Seasonal Trends: The peak in July could be driven by seasonal promotions, events, or product launches.
- 6. Low-Performance Months: June and December need focused marketing efforts, like discounts or loyalty campaigns, to attract more customers.
- 7. End-of-Year Opportunities: The upward trend in November and December aligns with holiday shopping. This period is crucial for maximizing revenue through aggressive campaigns and targeted promotions.
- 8. Sales Planning: Monthly patterns can help in inventory management and marketing resource allocation. For instance, higher inventory should be maintained in July, while leaner inventory might suffice in June.
- 9. The store maintains a fairly balanced revenue distribution across categories, indicating successful diversification
- 10. No single category severely underperforms, suggesting effective inventory and pricing strategies across all departments
- 11. Electronics could be considered the flagship category for the business, possibly driving store traffic and major sales events#### Observations:
- 12. Initial decline from 2022 to 2023. Followed by a sharp upward trend from 2023 to 2024.
- 13. In year 2022-2023 signups roughly decline by 11%
- 14. In year 2023-2024 recovery with approximately 37% growth is noted.
- 15. The recovery and growth in 2024 suggests successful customer acquisition strategies
- 16. The strong upward trajectory in 2024 indicates robust business health and effective customer acquisition