Deliverable 2: PDF Report with Business Insights

Business Insights from EDA

- Total Revenue: The total revenue generated from all transactions is \$689,995.56. This provides a baseline for understanding the overall financial performance of the business and highlights the effectiveness of sales and marketing strategies.
- 2. **Top Products by Revenue**: The top 5 products by revenue are:

o ActiveWear Smartwatch: \$39,096.97

SoundWave Headphones: \$25,211.64

SoundWave Novel: \$24,507.90

o ActiveWear Jacket: \$22,712.56

o **ActiveWear Rug**: \$22,314.43

These products contribute significantly to overall revenue and should be prioritized in inventory management, promotions, and strategic marketing initiatives.

3. **Top Customers by Spending**: The top 5 customers by spending are:

o **Paul Parsons**: \$10,673.87

o **Bruce Rhodes**: \$8,040.39

o **Gerald Hines**: \$7,663.70

William Adams: \$7,634.45

Aimee Taylor: \$7,572.91

These high-value customers represent an important segment of the customer base and should be targeted with loyalty programs, personalized offers, and premium customer experiences to enhance retention and lifetime value.

4. Sales Distribution by Region: Sales distribution across regions is as follows:

South America: \$219,352.56

o **Europe**: \$166,254.63

o North America: \$152,313.40

Asia: \$152,074.97

South America shows the highest sales figures, suggesting a

strongmarket presence. Strategic investments in logistics and regional marketing campaigns can further capitalize on this growth.

5. **Most Popular Product Categories**: The most popular product categories based on sales volume are:

o **Books**: 681 units

o Home Decor: 639 units

o **Electronics**: 627 units

o Clothing: 590 units

The demand for books and home decor is notable, which highlights potential opportunities for cross-selling or bundling strategies to increase average order value.

6. **Customer Acquisition Over Time**: Customer acquisition has grown steadily over time, with significant spikes in:

o April 2024: 10 new customers

o September 2024: 11 new customers

o November 2024: 11 new customers

These peaks suggest the success of seasonal promotions or marketing campaigns. Replicating these strategies during similar timeframes could sustain or boost growth further.

Recommendations:

- **Product Prioritization**: Focus marketing efforts on high-revenue products like "ActiveWear Smartwatch" and "SoundWave Headphones."
- **Customer Retention**: Implement loyalty programs targeting top spenders like Paul Parsons and Bruce Rhodes to ensure continued engagement.
- **Regional Strategies**: Allocate resources to high-performing regions, particularly South America, while identifying growth opportunities in underperforming areas.
- Category-Specific Promotions: Explore promotions and bundles for popular categories like Books and Home Decor to capitalize on consumer interest.