

Task - 1

Business Insights

1. Transaction Trends Over Time

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2. Top 10 Products by Sales

- Identifies best-performing products contributing most to revenue.
- Enables businesses to focus on promoting high-demand items.

3. Regional Sales Distribution

- Visualizes sales contribution by region.
- Highlights potential regions for growth or expansion.

4. Customer Spending Segmentation

- Analyzes customer spending distribution.
- Highlights high-value customers for targeted marketing.

5. Category-Wise Analysis

- Examines sales distribution across categories.
- Provides insights for category-level inventory and promotions.

6. Customer Retention and Loyalty

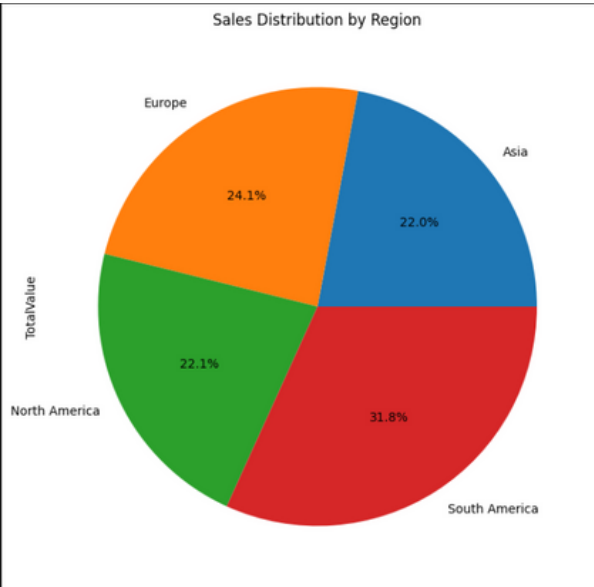
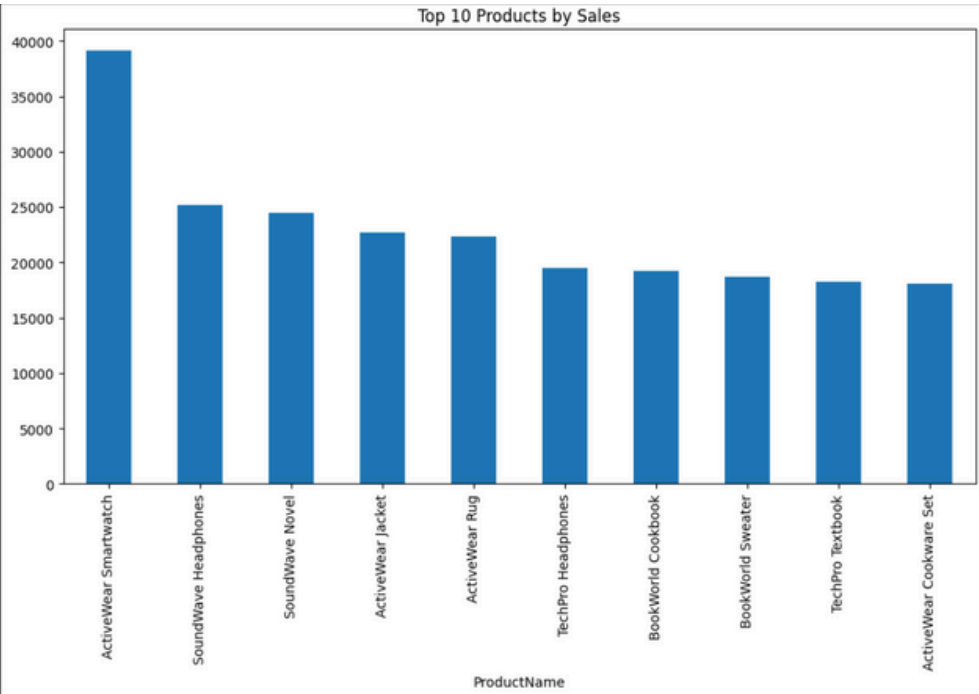
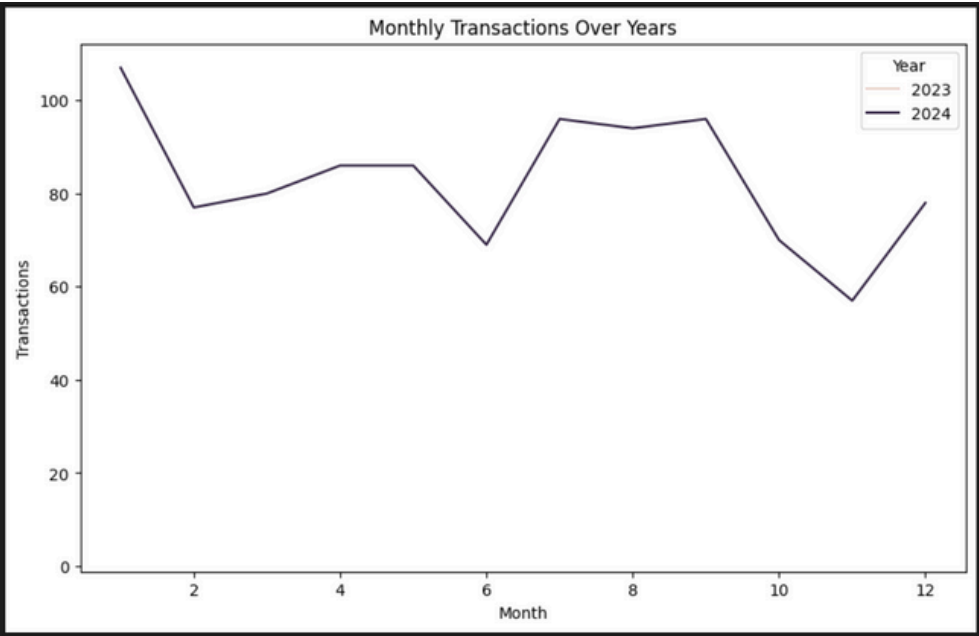
- Loyal customers generate significant revenue.
- Focus on retention strategies for repeat buyers.

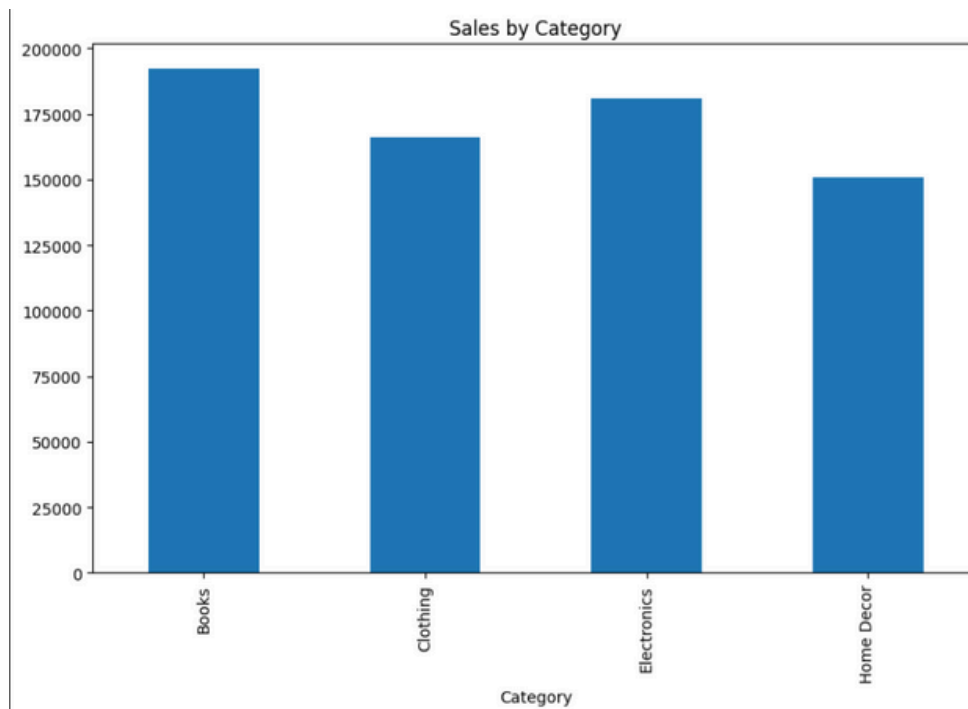
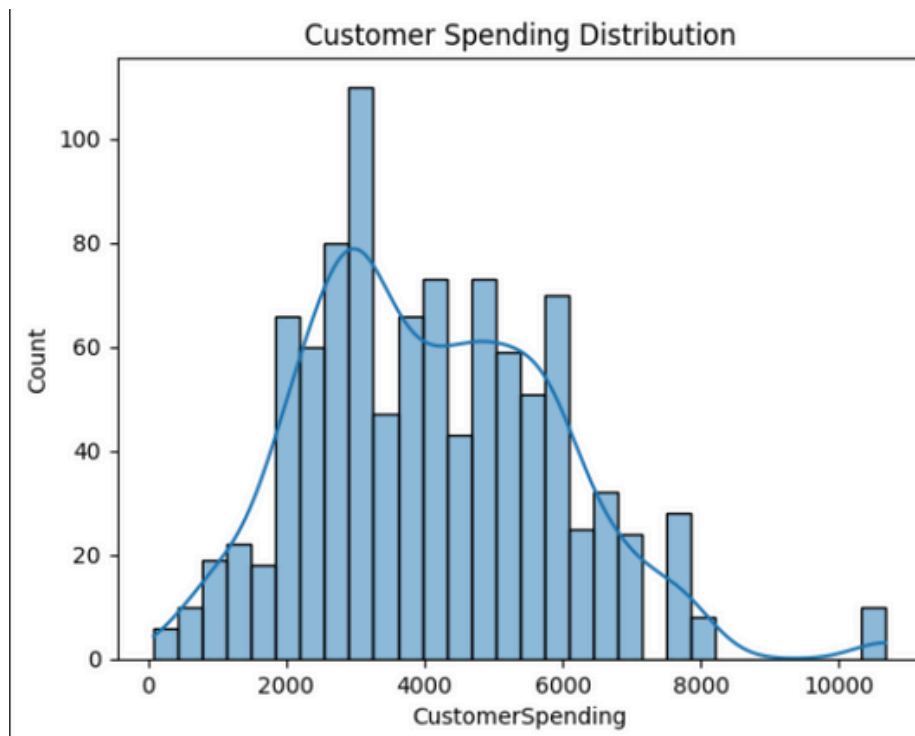
7. Customer Acquisition Trends

- Monitors new customer acquisition over time.
- Helps assess the effectiveness of marketing campaigns.

8. Churn Analysis

- The churn rate indicates customers making only one purchase.
- Identifies revenue loss due to churn for corrective actions.





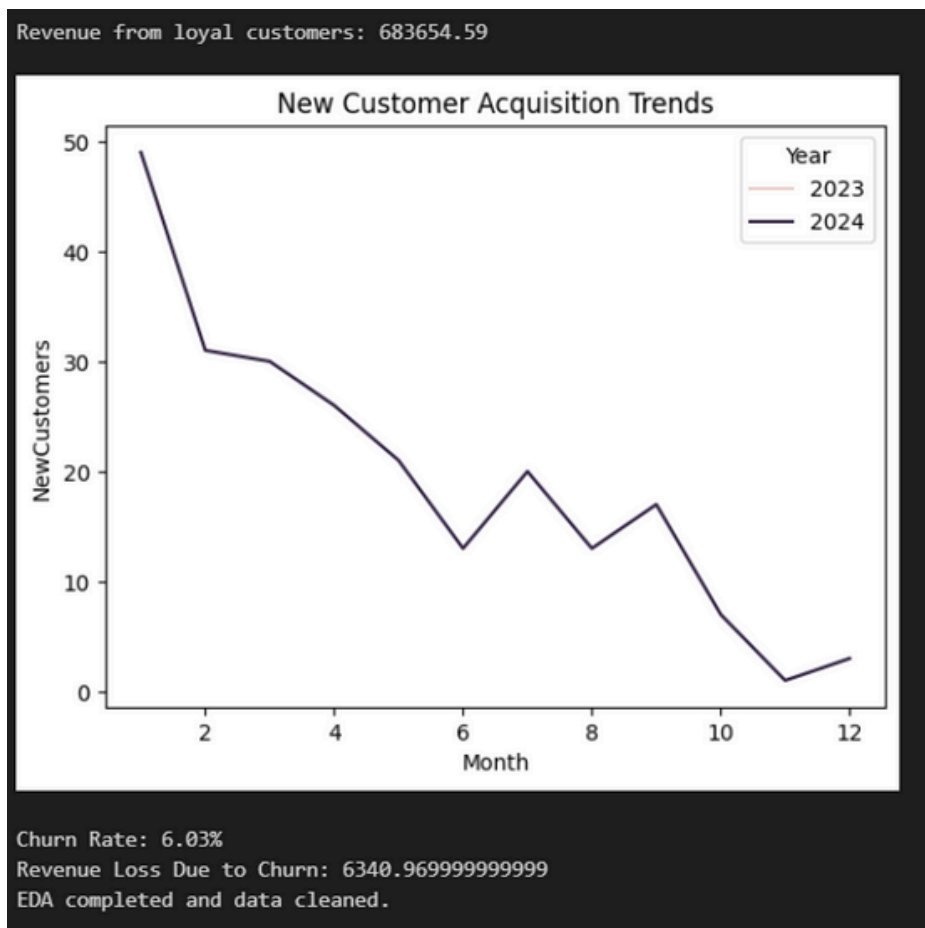


Image 1: Monthly Transactions Over Years

Trend: Transactions fluctuate across months for both 2023 and 2024.

Highlights: Peak transactions in January (>100). Lowest in October-November, with a slight recovery in December.

Comparison: 2023 had slightly higher transactions in early months than 2024.

Image 2: Top 10 Products by Sales

Best-Seller: ActiveWear Smartwatch leads with ~40,000 units sold.

Competitors: SoundWave Headphones and SoundWave Novel follow (~25,000 each).

Lower Sales: ActiveWear Cookware Set and TechPro Textbook round out the top 10.

Image 3: Sales Distribution by Region

Largest Share: South America (31.8%) dominates.

Others: Europe (24.1%), North America (22.1%), and Asia (22%) contribute evenly.