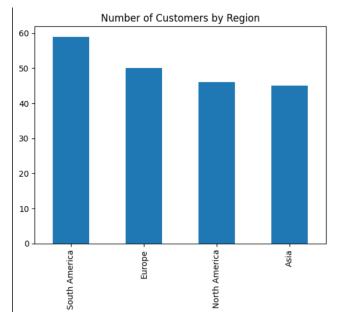
ZeoTap Data Science Assignment: Business Insights Report

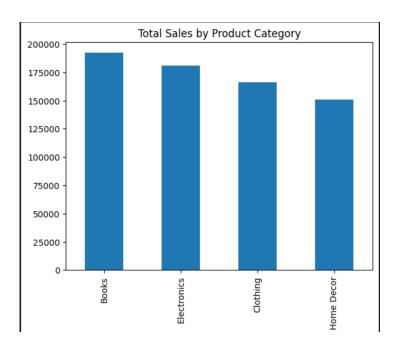
1. Regional Distribution of Customers

- Analysis of customer distribution across different regions reveals that South America
 (59 customers) has the highest customer count, followed closely by Europe (50),
 North America (46), and Asia (45).
- South America is currently the largest market by customer count, indicating a strong
 user base. However, Europe and North America have similar customer sizes,
 making them potential growth markets for expansion strategies. Tailored marketing
 campaigns and localized promotions can help drive higher engagement in these regions.



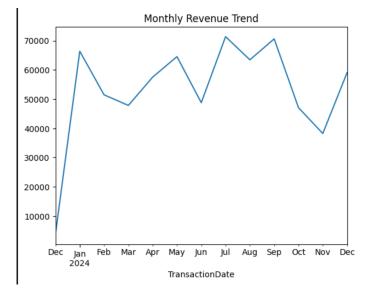
2. Category-wise Revenue Contribution

- Among product categories, **Books** (\$192,147.47) contribute the highest revenue, followed by **Electronics** (\$180,783.50), **Clothing** (\$166,170.66), and **Home Decor** (\$150,893.93).
- Insight: Books have the highest revenue share, likely due to high purchase frequency and lower return rates. However, Electronics and Clothing categories are also strong contributors, suggesting a demand for high-ticket items. Promotional strategies should focus on bundling offers and discounts in these categories to maximize revenue.



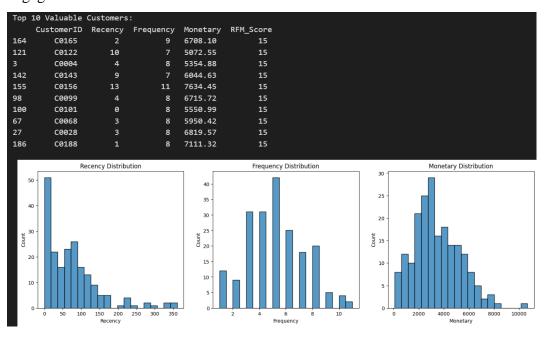
3. Monthly Sales Trend

- Sales trends over the past year show significant revenue fluctuations. The highest revenue month was July (\$71,366.39), followed by September (\$70,603.75), and January (\$66,376.39).
- Insight: The revenue peaks in July, January, and September suggest seasonal shopping patterns. January sales may be attributed to post-holiday spending, while July and September could indicate back-to-school shopping trends. Implementing seasonal discount campaigns, targeted promotions, and early-bird offers before peak months can optimize revenue.



4. Identifying Top Valuable Customers (RFM Analysis)

- The top 10 valuable customers (based on RFM analysis) exhibit high purchase frequency, recent transactions, and high monetary contributions. The most valuable customer, C0165, made 9 transactions with a total spending of \$6,708.10.
- Insight: High-value customers are essential for sustaining revenue. Loyalty programs, early access to new products, and exclusive discounts should be offered to these customers to enhance retention and lifetime value. Personalized email campaigns targeting these customers with product recommendations can further boost engagement.



5. Revenue Contribution from High-Value Customers

- The total revenue generated was \$689,995.56
- The top 10% of customers contribute \$131,829.22 (19.11%) of total revenue, while the top 5% alone contribute around \$69,305.21.
- Insight: This aligns with the Pareto principle (80/20 rule)—a small percentage of customers drive a significant portion of revenue. Customer segmentation efforts should prioritize these high-value customers with premium memberships, special promotions, and VIP services to maintain engagement and drive repeat purchases.

