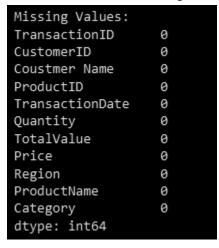
Report and Insights

The following are the main business insights derived from the initial EDA:

• The dataset has no missing values, indicating that the data was collected cleanly.

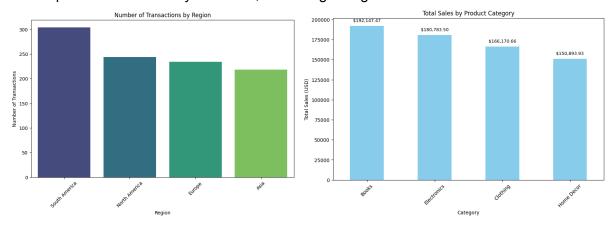


• The average transaction value is \$689.99, and the average order quantity is 2.5 items per transaction.

Summary Statistics:			
	Quantity	TotalValue	Price
count	1000.000000	1000.000000	1000.00000
mean	2.537000	689.995560	272.55407
std	1.117981	493.144478	140.73639
min	1.000000	16.080000	16.08000
25%	2.000000	295.295000	147.95000
50%	3.000000	588.880000	299.93000
75%	4.000000	1011.660000	404.40000
max	4.000000	1991.040000	497.76000

• The price range is between \$16.08 and \$497.76.

• Market penetration varies by continent, according to regional distribution.



These are the main business insights derived from the thorough EDA:

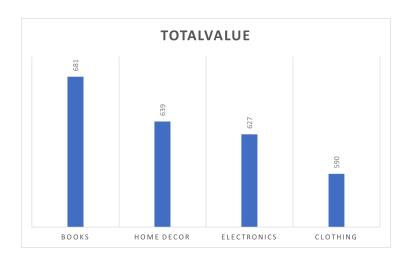
1. Regional Performance:

- South America has the highest average transaction value (\$721.55) and the highest total sales (\$219,352).
- Europe performs well in both metrics and comes next.
- The average transaction values in North America are lower, suggesting room for expansion.



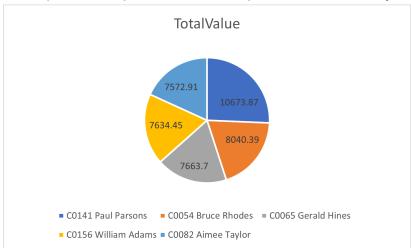
2. Performance of Product Categories:

- Books are the most sold category (681 units).
- Electronics and home furnishings perform well.
- A balanced product portfolio is suggested by even distribution across categories.



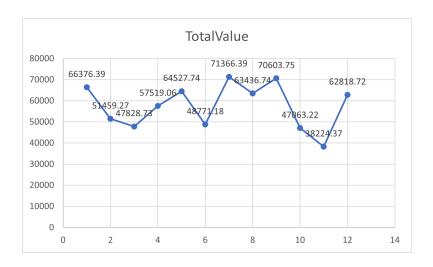
3. Customer Behavior:

- C0141, the top consumer, spent \$10,673.87.
- notable difference between typical clients and high spenders
- The top 5 clients provide a sizable portion of the money.



4. Seasonal Trends:

- July's peak sales (\$71,366)
- Sales are at their lowest in November (\$38,224).
- distinct seasonal trends, with the summer months exhibiting superior performance.



5. Transaction Patterns:

- Regional differences in average transaction value are substantial.
- Customers in South America tend to buy more.
- Bundle solutions could be advantageous for the North American market.

