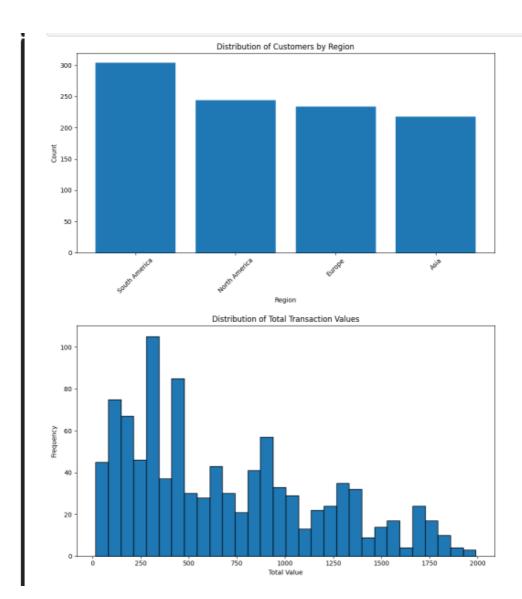
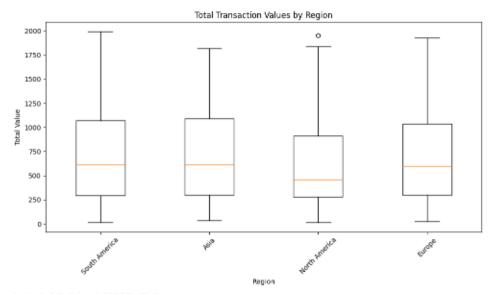
Business Insights from EDA:

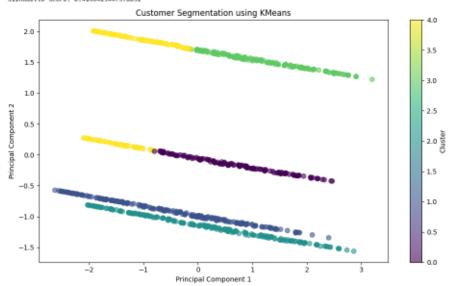
- 1. **Regional Distribution of Customers:** South America has the highest customer count, indicating a strong market presence, while Asia and Europe are equally significant, suggesting potential growth opportunities in these regions.
- **2. Transaction Value Distribution:** The majority of transactions fall under lower value ranges (250–500), reflecting a price-sensitive customer base or popular low-cost products.
- **3. Regional Spending Patterns:** North America exhibits a higher median transaction value compared to other regions, indicating higher purchasing power or preference for premium products.
- **4. Customer Segmentation:** KMeans clustering reveals distinct customer segments with varying transaction patterns and preferences, allowing for targeted marketing strategies.
- **5. Cluster Analysis Insight:** Cluster 3 (South America) has the lowest mean transaction value, emphasizing the need for affordable offerings in this region to drive growth.



DOMESTICAL PROPERTY.



Davies-Bouldin Index: 0.8827408814201491 Silhouette Score: 0.4145415447378831



Cluster	Analysis: TotalValue	Price				Region
	mean	count	median	mean	median	<lambda></lambda>
Cluster						
8	927.16	147	916.24	358,38	372.55	Asia
1	624.24	244	456.92	265.24	281.24	North America
2	718.49	234	596.58	275.57	300.68	Europe
3	1819.91	185	958.88	377.59	396.34	South America
4	244.48	199	197 22	115 75	126 34	South America