

Analyzing Sales Data for Business Insights

Objective: The goal of this analysis is to identify key trends and patterns in sales data, determine top-performing products and regions, and provide actionable recommendations to enhance business outcomes

Key Insights:

1. Top 5 Best-Selling Products and Revenue Contribution:

Product	Category	Total_Revenue	Revenue Contribution (%)
416	Home Goods	9981.60	0.383469
835	Home Goods	9854.20	0.378575
186	Home Goods	9406.33	0.361369
601	Home Goods	9286.82	0.356777
489	Toys	9213.20	0.353949

2. Regional performance:

This bar chart shows the total revenue generated in each region.



Total Revenue by Region:

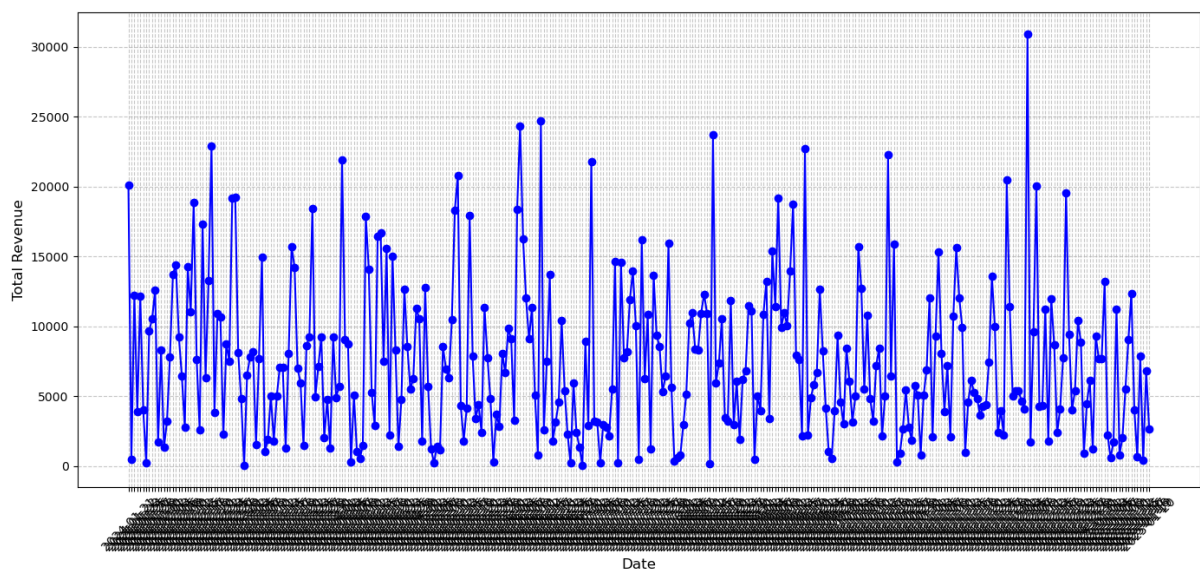
- The **South region** has the highest total revenue, than all other regions.

- The **West region** follows, though its total revenue is slightly lower than that of the South region.
- The **North and East regions** have comparable total revenue figures, with both slightly trailing behind the South and West.

Average Revenue per Transaction by Region:

- The **South region** again leads with the highest average revenue per transaction.
- The **North region** ranks second in average transaction value, close to the South region.
- The **East region** has a moderately high average revenue, while the West region has the lowest average revenue per transaction among all regions.

3. Time-Series Chart: Trends in Total Revenue Over Time



- Revenue exhibits high variability, with significant peaks indicating promotional periods, holidays, or high-demand days.
- The spikes likely correspond to seasonal trends or marketing campaigns that drive increased sales.
- The fluctuations suggest inconsistent daily revenue, which could be due to external factors like customer behavior, economic conditions, or stock availability.

Recommendations

1. Focus on the South Region:

- Increase marketing and promotional campaigns to further capitalize on the strong performance in this region.
- Consider expanding product availability or adding premium offerings to maximize high transaction values.

2. Improve West Region Revenue Quality:

- Analyze low-value transactions and consider upselling or bundling strategies to increase the average transaction value.

3. Enhance North and East Regions:

- Conduct customer preference analyses in these regions to identify products or categories with growth potential.
- Launch targeted campaigns to boost both total revenue and transaction values.