

Project Overview & Objectives

- **Identify Top-Selling Products**: Analyze the best-performing products, examine their sales trends, and understand the key factors driving their success.
- Analyze Sales Dynamics: Investigate the relationships between topselling products, sales channels,
- discounts, and other relevant variables to gain deeper insights into overall sales performance.
- Evaluate Low-Performing Products: Identify the least-selling products, assess the reasons for
- their poor performance, and develop strategies to boost their sales.
- **Deliver Actionable Insights**: Provide practical recommendations to enhance sales performance,
- identify areas for improvement, and leverage growth opportunities.

Row Labels	Sum of Adjusted_sales
2014	406493.7423
2015	407671.3237
2016	528294.0311
2017	631962.6685
Grand Total	1974421.766

Row Labels	Sum of Adjusted_sales
Qtr1	444655.064
Qtr2	394939.7071
Qtr3	528527.736
Qtr4	606299.2584
Grand Total	1974421.766

Data Description and Preparation

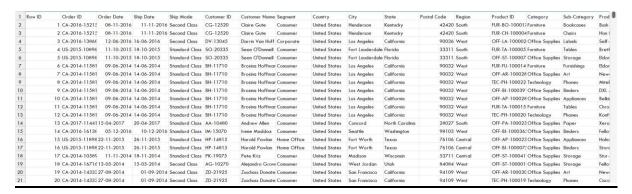
Dataset Overview:

The dataset in question pertains to sales data from a superstore. It comprises a total of 9,995 individual records (rows) and 21 distinct attributes (columns). Each row represents a specific transaction or sale, while the columns capture various details related to those transactions, such as product information, sales figures, customer details, and more.

Data Cleaning Process:

To prepare the dataset for analysis, the Power Query Editor was utilized. The primary steps in the data cleaning process included formatting the data to ensure consistency and sorting the date entries in ascending order. This sorting ensures that the data is organized chronologically, making it easier to analyse trends and patterns over time. Additionally, the use of Power Query Editor allowed for efficient handling of any inconsistencies or errors in the dataset, ensuring that the data was clean and ready for further analysis.

Uncleaned Data:



Cleaned Data:



Key Metrics Calculation and Data Analysis

Formulas:

Gross Sales =SUM (Sales Amount)

Net Sales =Sales-(Discount*sales)

Average Sales =Average(sales)

Discounted Sale = (Sales rate*Discount rate)

Month () =MONTH (orderdate column)

Year () =Year (orderdate column)

Visuals:

Total Adjusted sales	₹ 19,74,421.77
Average order	198
Total Revenue	₹ 22,96,919.49
Total Discount	₹ 3,22,497.72

Time Based Analysis

The table summarizes the monthly sales performance for a superstore, showing the adjusted sales figures for each month and the grand total. Here's an analysis of the performance:

1. Monthly Performance:

- **Strongest Months**: November (232,927.4267) and September (216,148.9719) are the top-performing months, followed by December (216,371.6841) and March (184,273.5674). These months show significantly higher sales compared to others.
- o **Moderate Months**: January (142,632.6259), May (146,446.3224), and August (176,595.9273) show moderate sales performance.
- o **Lower Performance Months**: February (117,748.8708), April (122,846.7527), June (125,646.6321), July (135,782.8367), and October (157,000.1477) have relatively lower sales figures.

2. Trends:

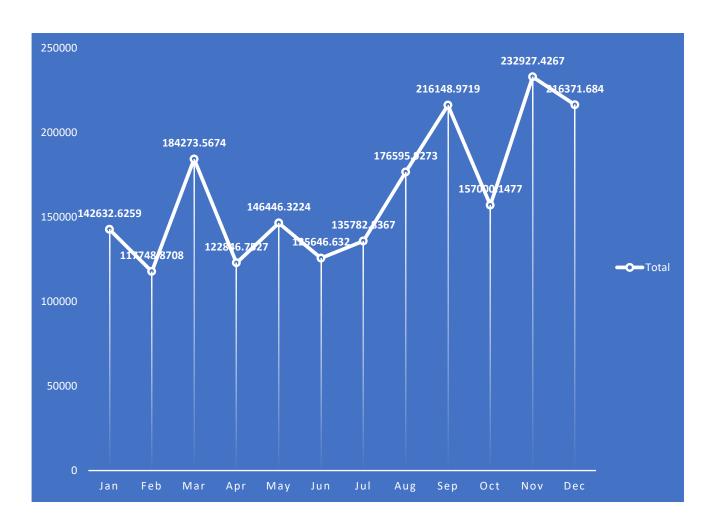
- The second half of the year (July to December) generally performs better than the first half, with November and December being particularly strong.
- The first half of the year (January to June) shows more variability, with March being a standout month.

3. Grand Total:

o The total adjusted sales for the year amount to 1,974,421.7661.

Overall, the data indicates a strong performance in the latter part of the year, with November being the peak month. This trend suggests potential seasonality or specific factors driving higher sales during these periods.

	Sum of
Row Labels	Adjusted_sales
Jan	142632.6259
Feb	117748.8708
Mar	184273.5674
Apr	122846.7527
May	146446.3224
Jun	125646.632
Jul	135782.8367
Aug	176595.9273
Sep	216148.9719
Oct	157000.1477
Nov	232927.4267
Dec	216371.684
Grand Total	1974421.766



Product Wise Sales

The table provides a breakdown of sales performance by product category, showing the adjusted sales figures for each category and the grand total. Here's an analysis of the performance:

1. Top-Performing Categories:

- o **Phones**: This category has the highest sales at 281,914.1148, making it the best-performing product category.
- o **Chairs**: The second-highest sales come from Chairs at 278,437.3425.
- o **Tables**: Tables also perform well with sales of 162,773.3349.
- **Binders**: This category shows strong performance with sales of 159,667.6537.
- **Storage**: Storage products contribute significantly with sales of 210,645.6384.

2. Moderate-Performing Categories:

- Accessories: Sales of 157,578.3164 indicate a solid performance.
- o Machines: This category has sales of 142,472.6495.
- o Copiers: Copiers show moderate sales at 131,528.2996.
- **Appliances**: Sales of 100,041.8613 are decent but not as high as the top categories.
- Bookcases: This category has sales of 94,079.40526.
- o Furnishings: Sales of 82,996.2112 are moderate.

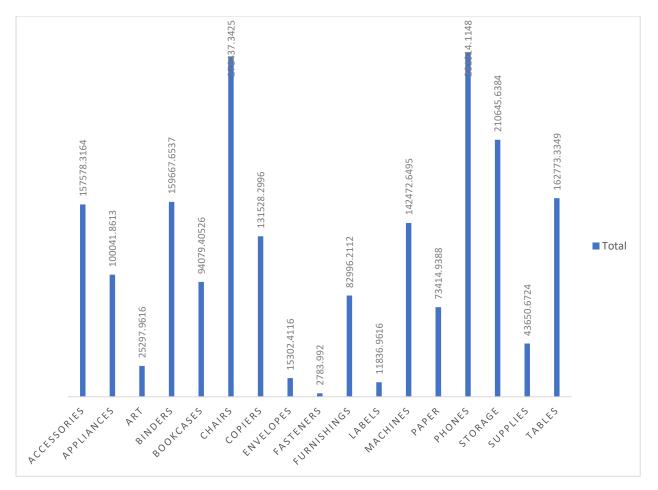
3. Lower-Performing Categories:

- o **Paper**: Sales of 73,414.9388 are relatively lower.
- Supplies: This category has sales of 43,650.6724.
- **Art**: Sales of 25,297.9616 are quite low.
- Envelopes: This category shows minimal sales at 15,302.4116.
- Labels: Sales of 11,836.9616 are very low.
- Fasteners: This category has the lowest sales at 2,783.992.

4. Grand Total:

• The total adjusted sales across all categories amount to 1,974,421.766.

Row Labels	Sum of Adjusted sales
Accessories	1 <i>5757</i> 8.3164
Appliances	100041.8613
Art	25297.9616
Binders	159667.6537
Bookcases	94079.40526
Chairs	278437.3425
Copiers	131528.2996
Envelopes	15302.4116
Fasteners	2783.992
Furnishings	82996.2112
Labels	11836.9616
Machines	142472.6495
Paper	73414.9388
Phones	281914.1148
Storage	210645.6384
Supplies	43650.6724
Tables	162773.3349
Grand Total	1974421.766



Regional Sales

1. Regional Performance:

- **West**: This region has the highest sales at 632,051.149, making it the top-performing region.
- **East**: The East region follows with sales of 583,975.645, indicating strong performance.
- o **Central**: The Central region shows solid sales at 423,452.227.
- **South**: The South region has the lowest sales among the regions at 334,942.743.

2. Grand Total:

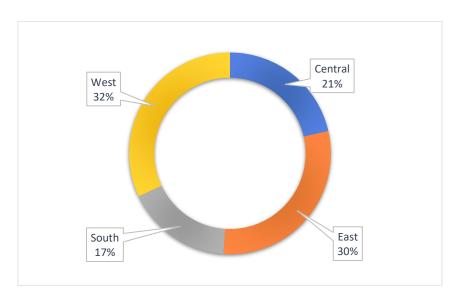
o The total adjusted sales across all regions amount to 1,974,421.76.

3. Trends:

o The West and East regions are the primary drivers of sales, contributing significantly to the overall total.

 The Central region performs moderately, while the South region lags behind in comparison.

Row Labels	Sum of Adjusted sales
Central	423452.2276
East	583975.6454
South	334942.7434
West	632051.1492
Grand Total	1974421.766



Conclusion & Next Steps

The data highlights the importance of the Technology category and the West region in driving overall sales. By focusing on high-performing areas and addressing underperforming segments, there is significant potential to optimize revenue and market share.

Next steps:

- 1. Seasonal Sales Analysis
- 2. Customer Segmentation
- 3. Customer Feedback and Satisfaction
- 4. Cross-Selling and Upselling Opportunities