

Retail Sales Analysis & Interactive Dashboard (Excel Project)

Objective: Analyze monthly sales data of a retail store to identify trends, top products, high-performing regions, and create a visual dashboard.

1. Analysis Steps

Monthly Sales Analysis

Insert a new column Month = =TEXT(B2,"mmm")

Use a Pivot Table: Rows = Month, Values = Sum of Sales (\$)

Chart: Line chart showing monthly sales trend.

Top Products

Pivot Table: Rows = Product, Values = Sum of Sales (\$)

Sort descending to identify top-selling products.

Chart: Bar chart of top 10 products.

Sales by Region

Pivot Table: Rows = Region, Values = Sum of Sales (\$) / Profit (\$)

Chart: Pie chart showing sales distribution by region.

Profit Analysis

Add calculated column Profit Margin % = =I2/F2*100

Conditional formatting to highlight high/low profit margins.

Discount Impact

Scatter plot: X-axis = Discount (%), Y-axis = Profit (\$)

Analyze how discounts affect profitability.

##Dashboard Sheet

Combine all charts in one sheet.

Use Slicers for filtering by Region, Category, or Month.

Add key metrics: Total Sales, Total Profit, Average Discount, Top Product.

2. Formulas Used

=TEXT(B2,"mmmm") → Extract month from date

=SUMIFS(Sales_Data[Sales (\$)], Sales_Data[Region], "West") → Sum sales by criteria

=I2/F2*100 → Calculate profit margin

Conditional formatting rules to highlight top/bottom values

3. Visualizations

Line chart → Monthly Sales Trend

Bar chart → Top Products

Pie chart → Sales by Region

Scatter chart → Discount vs Profit

KPI cards → Total Sales, Total Profit, Average Discount

4.. Extensions

Predict next month's sales using a simple linear trend.

Compare actual sales vs target sales.

Add a Year-over-Year (YoY) comparison if you have multiple years

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Project by: Shubham Suryawanshi

GitHub: github.com/shubhamSuryawanshi221

LinkedIn: linkedin.com/in/shubham-suryawanshi221