Sample Superstore Data Analysis Dashboard — Step-by-Step Documentation



1) Problem Statement

- Management wants a single interactive view that tracks Sales and Profit across time, category, region, state, and customers to quickly spot top performers and problem areas.
- The dashboard must provide drill-downs and filters for date and geography using the given dataset.

2) Objectives & Key Questions

Primary Objective: Build an interactive Excel dashboard that summarizes performance and enables ad-hoc analysis.

KPIs & Questions the dashboard should answer: -

- What are **Total Sales** and **Total Profit** for the selected period/filters?
- Which product has the highest sales and which has the highest profit?
- How do Sales and Profit trend by Year?
- Which Categories/Sub-Categories drive sales vs profit?
- Which Region contributes most to profit?

- Who are the **Top 5 Customers** by sales (or profit)?
- How do results change when filtering by Order Date and State?

3) Dataset & Columns

The dataset contains the following columns: -

- Row ID unique transaction ID –
- Order ID order identifier
- Order Date, Ship Date dates for order and shipment
- **Ship Mode** delivery type (e.g., Standard Class)
- Customer ID, Customer Name, Segment customer information
- Country, City, State, Postal Code, Region geography
- Product ID, Category, Sub-Category, Product Name product details
- Sales, Quantity, Discount, Profit transaction metrics

Derived fields / Measures:

- Total Sales = SUM(Sales)
- **Total Profit** = SUM(Profit)
- Max Sales Product = Product Name with highest SUM(Sales)
- Max Profit Product = Product Name with highest SUM(Profit)

4) Step-by-Step — Excel Build

Step 1: Import & Structure Data

- 1. Open the raw data in Excel.
- Select the full dataset → Insert ➤ Table (tick My table has headers). Name it tbl Superstore.

Step 2: Create Pivot Tables for Each Visual

Create separate PivotTables for each card/chart. Place them on a hidden *Pivots* sheet.

- **A. KPI Cards (Total Sales, Total Profit)** Pivot: **Values** = Sum of Sales, Sum of Profit. Format as currency. Reference these values to dashboard tiles.
- **B. Max Sales Product & Max Profit Product** Pivot: **Rows:** Product Name, **Values:** Sum of Sales. Sort Descending. Take Top 1 for Max Sales Product. Duplicate Pivot with **Values:** Sum of Profit for Max Profit Product.
- **C. Sales & Profit by Category** Pivot: **Rows:** Category (and Sub-Category if needed). **Values:** Sum of Sales, Sum of Profit. Insert Combo Chart: Sales as Column, Profit as Line.
- **D. Sales & Profit by Year** Add Year column from Order Date. Pivot: **Rows:** Year, **Values:** Sum of Sales, Sum of Profit. Insert Combo Chart with Sales (Column) and Profit (Line).
- **E. Profit by Region** Pivot: **Rows:** Region, **Values:** Sum of Profit. Insert Pie Chart \rightarrow Format as Donut \rightarrow add percentage labels.
- **F. Top 5 Customers** Pivot: **Rows:** Customer Name, **Values:** Sum of Sales. Apply Value Filter → Top 5 by Sales. Insert Bar Chart.

Step 3: Add Filters (Interactivity)

- Timeline: Insert Timeline on Order Date → link to all PivotTables.
- Slicer: Insert Slicer for State (and optionally Segment, Ship Mode) → link to all PivotTables.

Step 4: Layout & Formatting

- Place KPI cards on top row.
- Place charts in neat 2×2 grid.
- Place slicers and timeline on the left.
- Use consistent fonts, colors, and labels.

Step 5: QA & Validation

- Cross-check totals with raw data.
- Verify that slicers/timelines control all visuals.
- Test single filters (e.g., one state, one year).

Step 6: Delivery

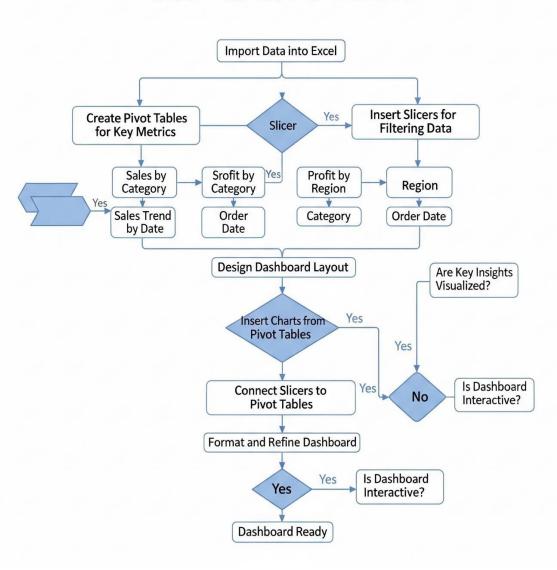
- Protect sheet layout.
- Save as .xlsx and share with management.

5) Flow Diagram of Dashboard Creation

The following diagram shows how raw data flows into cleaning, pivot tables, visuals, and then into the final dashboard:

Excel Dashboard Flow Chart:

Sample Superstore Excel Dashboard Creation

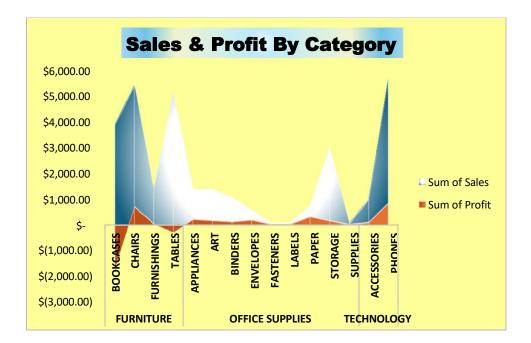


6) Visual-by-Visual Explanation

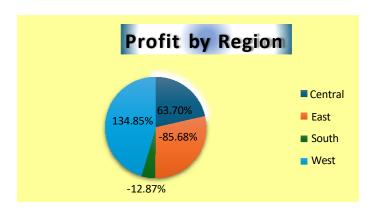
• KPI Cards (Total Sales, Total Profit): Quick snapshot of overall performance.



- Max Sales Product: Identifies best-selling product by revenue.
- Max Profit Product: Identifies product with highest profitability.
- Sales & Profit by Category: Reveals categories with strong revenue but weak margins.



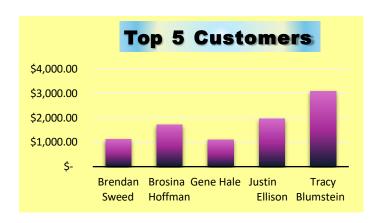
• **Profit by Region:** Shows contribution of each region to profit share.



• Sales & Profit by Year: Highlights growth trends and profitability shifts over years.



• **Top 5 Customers:** Surfaces key customers driving majority of sales.



• Slicers & Timeline: Enable interactive analysis by filtering on State and Date.



7) Conclusion

The Excel dashboard allows management to: -

- Monitor total sales and profit quickly.
- Identify top products and best customers.
- Compare categories and regions for performance.
- Spot yearly sales trends and profit gaps.
- Filter by **state** or **time period** for deeper insight.
- This ensures **data-driven decisions** for pricing, promotions, inventory, and regional strategy.

8) Recommendation

- Focus on **high-selling categories** like furniture.
- Revise sales strategies to improve sales and profit.
- Invest in the Central region to maximize profitability.
- Build stronger relationships with top customers.