

SuperStore

Key Landmarks



45%

57.15%

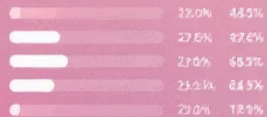
Great Sales

18.54%



Sales Count
127.56
Sales Price
127.56

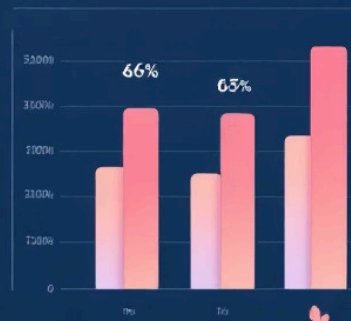
15%



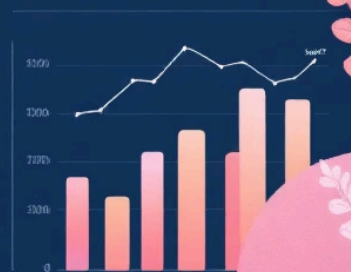
Dashboard



Detracting



Dashboard



SuperStore Sales Dashboard – End-to-End Process & Analysis

1. Business Objective

The objective of this dashboard is to provide a comprehensive performance overview of the SuperStore business by analyzing:

- Overall Sales, Profit, and Return Percentage
- Year-over-Year (YoY) comparison with Previous Year (PY)
- Performance by Region, State, Category, Sub-Category, and Product

Identification of:

- High-profit and loss-making products
- Regions and categories with high return rates
- Monthly sales trends and seasonality

This dashboard supports data-driven decision making for sales, operations, and supply-chain optimization.

1. Data Understanding

Fact Table: Orders

Key columns used:

- Sales, Profit, Quantity, Discount
- Order Date, Ship Date
- Category, Sub-Category, Product Name
- Region, State/Province, City
- Ship Mode
- Order ID, Customer ID

Dimension Table: Date Table

Key columns:

- Date
- Year
- Month
- Start of Month

A dedicated Date table is required to enable time-intelligence calculations.

1. Data Preparation (Power Query)

Steps performed in Power Query Editor:

- Removed null values from critical fields such as Sales, Profit, and Order Date
- Removed error rows from numeric columns

Assigned correct data types:

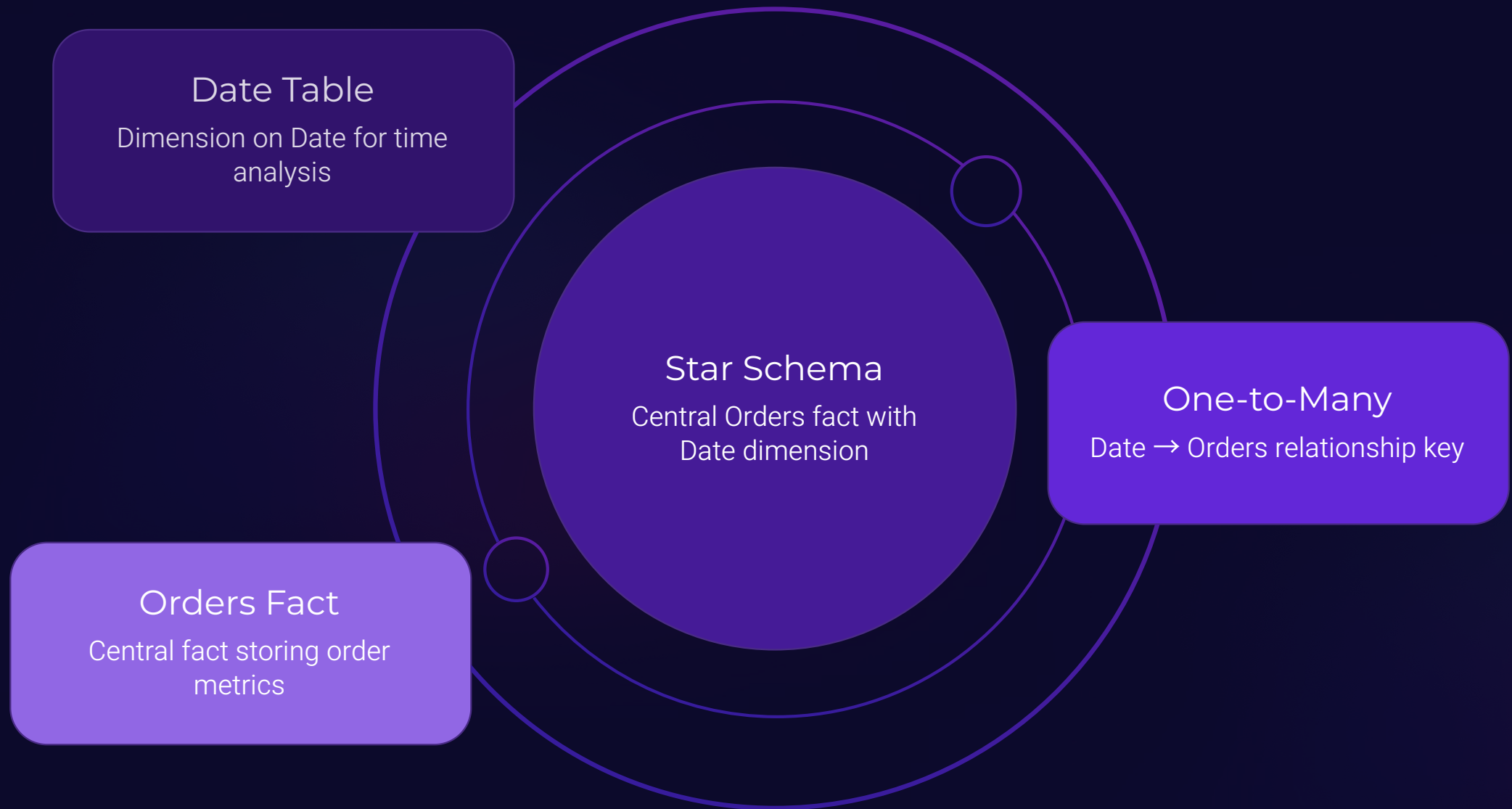
- Sales, Profit → Decimal
- Quantity → Whole number
- Date fields → Date

Created derived columns:

- Year
- Month
- Start of Month

Loaded clean data into the data model

1. Data Modeling



- Relationship created:
- Date Table[Date] → Orders[Order Date] (One-to-Many)
- Date table marked as Date Table
- Star schema followed for better performance and scalability

1. Key Measures (DAX)

Base Measures

$\text{Sales} = \text{SUM}(\text{Orders}[\text{Sales}])$

$\text{Profit} = \text{SUM}(\text{Orders}[\text{Profit}])$

$\text{Returned Orders} = \text{DISTINCTCOUNT}(\text{Orders}[\text{Order ID}])$

Return Percentage

$\% \text{ Returned Orders} = \text{DIVIDE}(\text{Returned Orders}, \text{DISTINCTCOUNT}(\text{Orders}[\text{Order ID}]))$

Previous Year (PY) Measures

$\text{Sales PY} = \text{CALCULATE}(\text{Sales}, \text{SAMEPERIODLASTYEAR}(\text{Date Table}[\text{Date}]))$

$\text{Profit PY} = \text{CALCULATE}(\text{Profit}, \text{SAMEPERIODLASTYEAR}(\text{Date Table}[\text{Date}]))$

$\text{Returned Orders PY} = \text{CALCULATE}(\text{Returned Orders}, \text{SAMEPERIODLASTYEAR}(\text{Date Table}[\text{Date}]))$

Year-over-Year (Vs PY) Measures

$\text{Vs PY - Sales} = \text{DIVIDE}(\text{Sales} - \text{Sales PY}, \text{Sales PY})$

$\text{Vs PY - Profit} = \text{DIVIDE}(\text{Profit} - \text{Profit PY}, \text{Profit PY})$

$\text{Vs PY - \% Returned Orders} = \text{DIVIDE}(\% \text{ Returned Orders} - \% \text{ Returned Orders PY}, \% \text{ Returned Orders PY})$

1. Visuals and Their Purpose

1	<div>KPI CARDS</div> <ul style="list-style-type: none">Total SalesTotal ProfitReturn PercentagePrevious Year values and YoY change <p>Purpose: Provides an instant high-level snapshot of business performance.</p>
2	<div>SALES VS PREVIOUS YEAR OVER TIME (LINE/AREA CHART)</div> <ul style="list-style-type: none">X-Axis: Start of MonthValues: Sales and Sales PY <p>Purpose: Tracks monthly trends, growth patterns, and seasonality while comparing current year performance with the previous year.</p>
3	<div>PROFIT BY STATE (MAP VISUAL)</div> <ul style="list-style-type: none">Location: State/ProvinceSize: Profit <p>Purpose: Identifies high-profit and loss-making states geographically.</p>
4	<div>RETURN PERCENTAGE BY REGION</div> <ul style="list-style-type: none">Regions: South, Central, East, West <p>Purpose: Highlights operational or logistical issues by identifying regions with high return rates.</p>
5	<div>SALES BY SHIP MODE (DONUT CHART)</div> <ul style="list-style-type: none">Standard ClassSecond ClassFirst ClassSame Day <p>Purpose: Analyzes customer preference for shipping methods.</p>
6	<div>RETURN PERCENTAGE BY CATEGORY</div> <ul style="list-style-type: none">TechnologyFurnitureOffice Supplies <p>Purpose: Identifies categories with higher return risk.</p>
7	<div>PROFIT BY PRODUCT / SUB-CATEGORY (COLUMN CHART)</div> <ul style="list-style-type: none">X-Axis: Sub-CategoryY-Axis: Profit <p>Purpose: Identifies high-performing and loss-making product segments.</p>
8	<div>PROFIT BY CATEGORY AND SUB-CATEGORY (TREEMAP)</div> <p>Purpose: Shows hierarchical contribution of sub-categories within each category.</p>



1. Interactivity and Filters

- Date slicer using Start of Month
- Cross-filtering enabled across all visuals
- Dynamic updates based on user selections

1. Dashboard Analysis & Insights



Sales Performance

- Strong overall sales growth
- Approximately 47% YoY increase, indicating business expansion



Profitability

- Overall profit is positive
- Some sub-categories (e.g., Tables, Bookcases) generate losses and require cost or pricing review



Returns Analysis

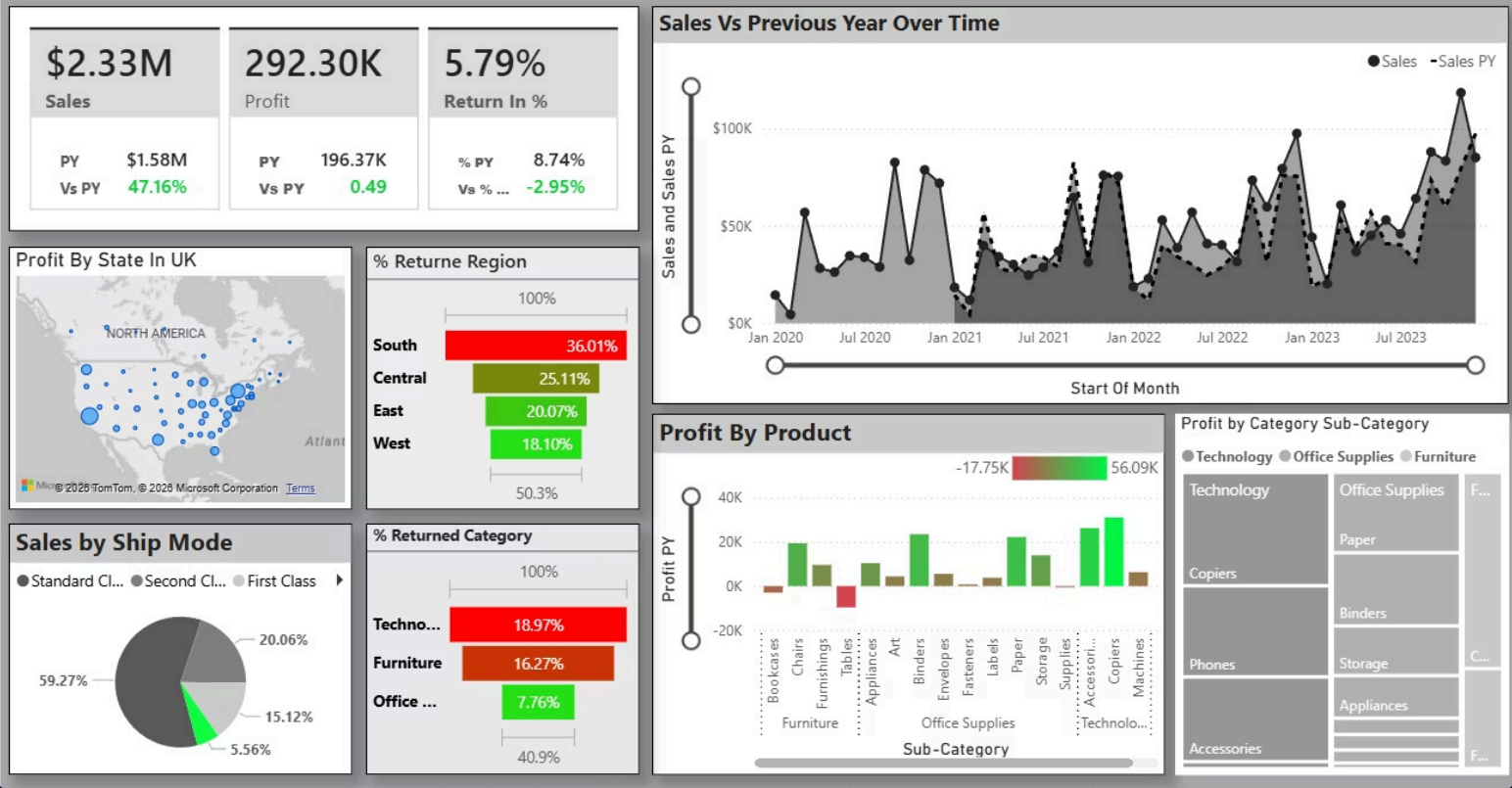
- Return percentage has reduced compared to the previous year, which is a positive sign
- South region and Technology category show relatively higher return rates



Shipping Insights

- Standard Class dominates total sales
- Same-Day shipping has minimal contribution, suggesting limited demand or higher cost

SuperStore Sales Dashboard



Overview
High-level snapshot
of metrics



Real-time
Feed
Live updates and
alerts



Key KPIs
Top performance
indicators



Trends
Historical patterns
and insights



Segments
Filter by user groups



Customization
Personalize layout
and widgets



Reports
Exportable
summaries and
charts



Access Control
Manage user
permissions



1. Conclusion

This SuperStore Sales Dashboard delivers a holistic and interactive analytical view of sales, profit, and return performance. By leveraging Power BI data modeling, DAX time-intelligence functions, and interactive visuals, the dashboard enables stakeholders to monitor trends, identify risk areas, and make informed strategic decisions.