

# Superstore Sales Analysis Project

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Tools Used: Microsoft Excel, MySQL, Tableau, Python

## Executive Summary

This report presents a comprehensive analysis of the Superstore dataset using SQL for data exploration and Tableau for visualization. The objective is to identify sales trends, analyze profit-generating segments, and provide actionable insights for business decisions. Key findings include the most profitable product categories, underperforming regions, and high-value customer segments.

## Table of Contents

1. Introduction
2. Dataset Overview
3. Tools Used
4. SQL Analysis
5. Tableau Dashboard
6. Key Insights
7. Conclusion

## 1. Introduction

The Superstore Sales Analysis project aims to uncover business insights from historical retail data. This includes identifying profitable product categories, high-performing regions, and customer purchasing behavior. By leveraging SQL and Tableau, we visualize and extract meaningful patterns from raw sales data.

## 2. Dataset Overview

The dataset used, 'superstore\_cleaned.csv', contains over 9,000 records and includes fields such as Order Date, Sales, Profit, Category, Sub-Category, Region, Customer Name, and more. The data was cleaned using Microsoft Excel to remove null values and correct inconsistent formats.

### 3. Tools Used

1. Microsoft Excel - for initial data cleaning and preparation.
2. MySQL - for executing queries and aggregating insights.
3. Tableau - for creating dashboards and visualizing trends.

### 4. SQL Analysis

Sample SQL Query - Top 10 Customers by Sales:

```
SELECT Customer_Name, SUM(Sales) AS Total_Sales  
FROM superstore_cleaned  
GROUP BY Customer_Name  
ORDER BY Total_Sales DESC  
LIMIT 10;
```

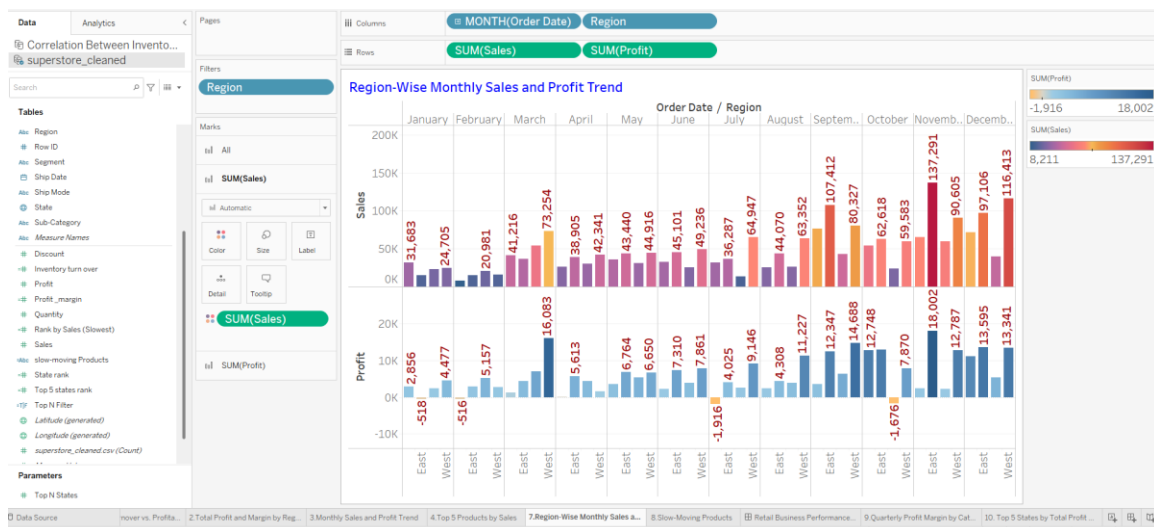
This query identifies the top customers contributing most to overall sales. Similar queries were used to explore category performance, regional trends, and profit distributions.

### 5. Tableau Dashboard

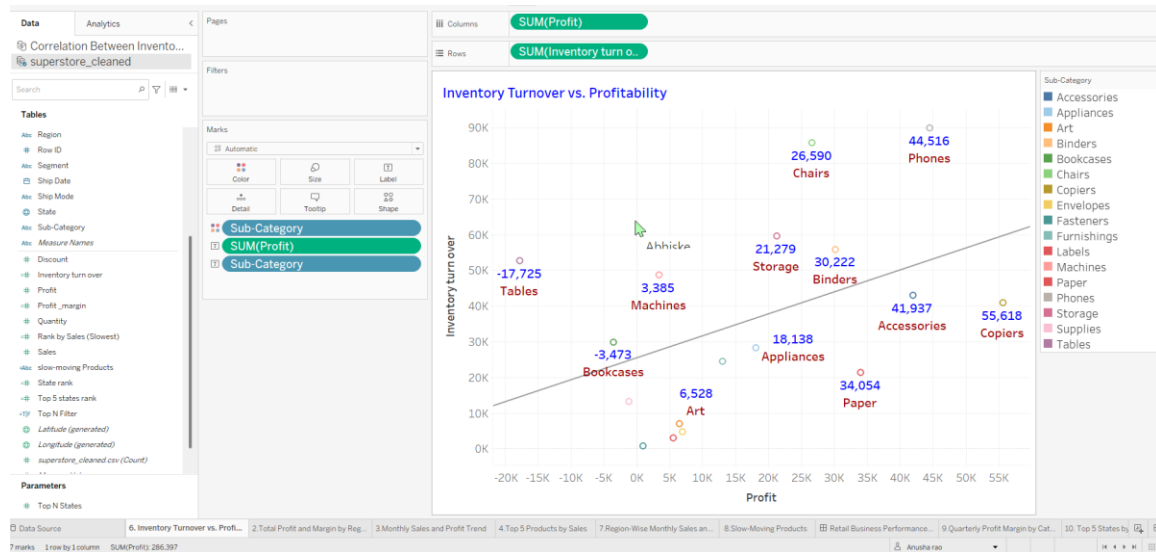
Visual dashboards were created in Tableau to highlight the following:

- Regional performance in terms of sales and profit.
- Top-selling products and categories.
- Monthly sales trends.
- Sub-category level performance breakdown.

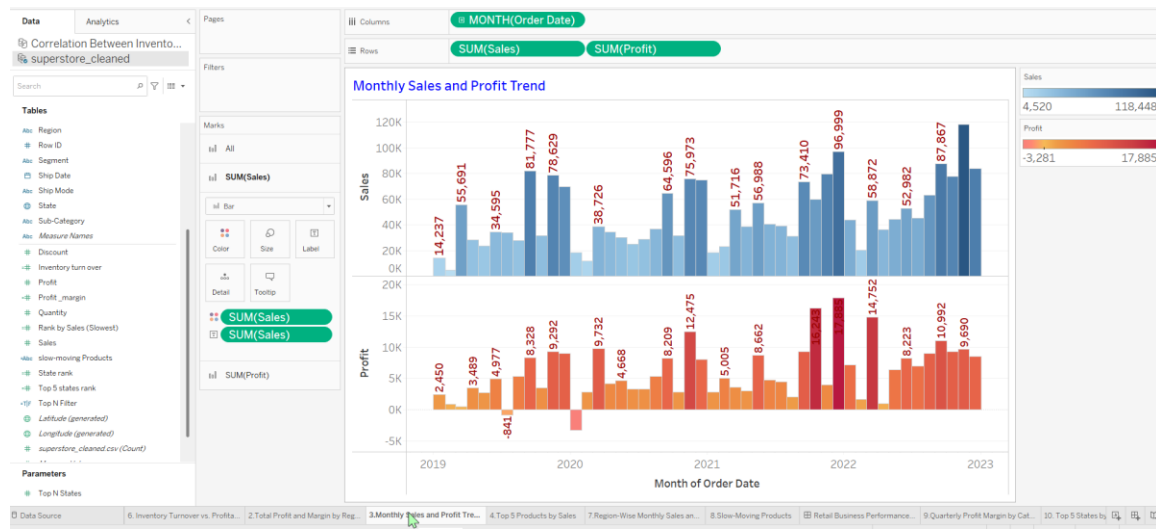
#### Sales by Region:-



## Inventory Turnover vs. Profitability:-



## Monthly Trend:-



## 6. Key Insights

- The Technology category yields the highest profit margins.
- Office Supplies show stable sales but lower profit.
- The South region, while having high sales, lags in profit.
- Sub-categories like Phones and Chairs dominate revenue.

## 7. Conclusion

This analysis highlights areas where the Superstore business can optimize strategies—focusing on high-profit segments, revising pricing in low-profit regions, and targeting top

customer segments. Data-driven decision-making can significantly enhance profitability and market reach.