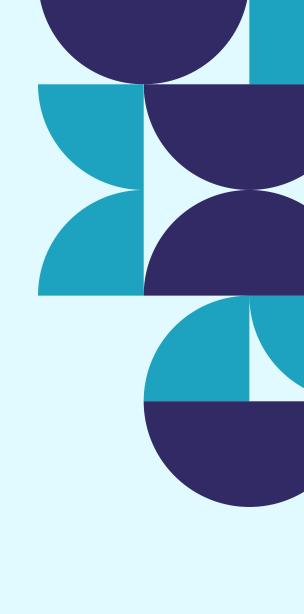
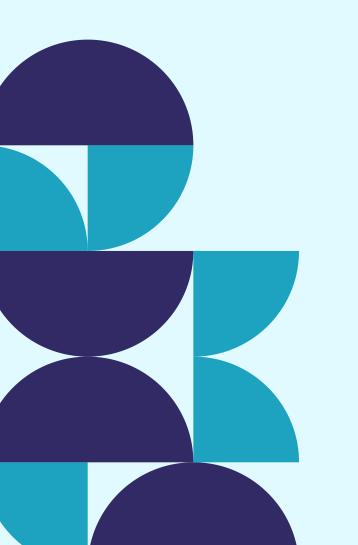


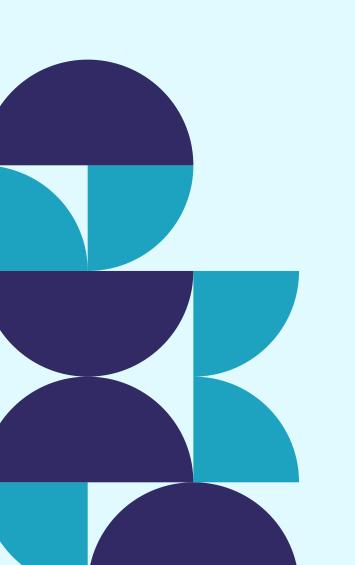
Presented By Madhurjo Majumder

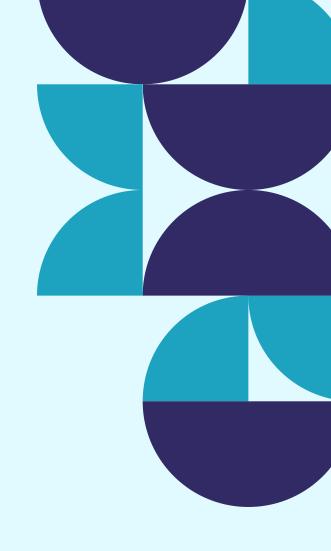




INTRODUCTION

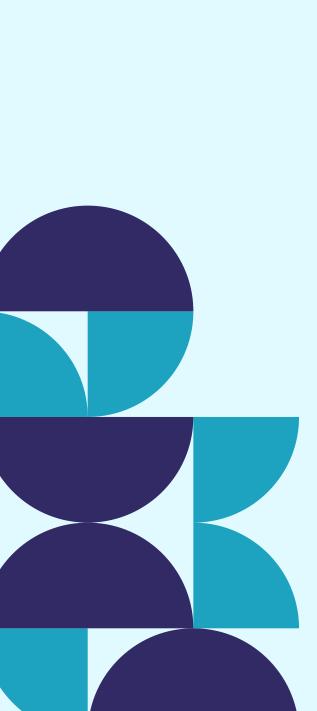
The Superstore Sales Analysis Project focuses on exploring and analyzing a retail dataset, known as the "Superstore" dataset, which contains detailed records of sales transactions. This dataset includes various attributes such as order details, customer segments, product categories, regional information, shipping details, sales figures, discounts, and profit margins. The primary goal of this project is to leverage SQL to derive meaningful insights and perform data-driven decisionmaking.

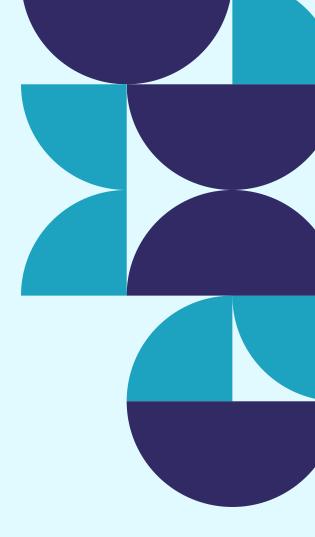




PROJECT OVERVIEW

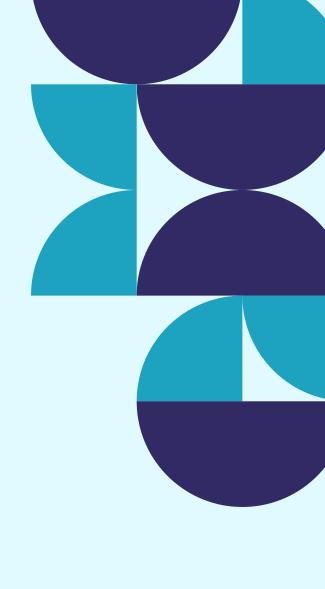
The Superstore Sales Analysis Project aims to provide a comprehensive understanding of a retail store's sales data using SQL. By analyzing the Superstore dataset, the project seeks to uncover insights that can drive business decisions and optimize performance.

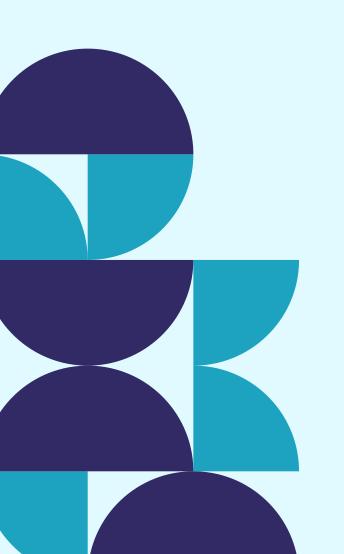




PROBLEMS

- Basic Select and Filtering
- Aggregation with GROUP BY
- Using IN with Multiple Filters
- Subquery
- HAVING Clause
- Using LIKE
- Using UNION
- Views





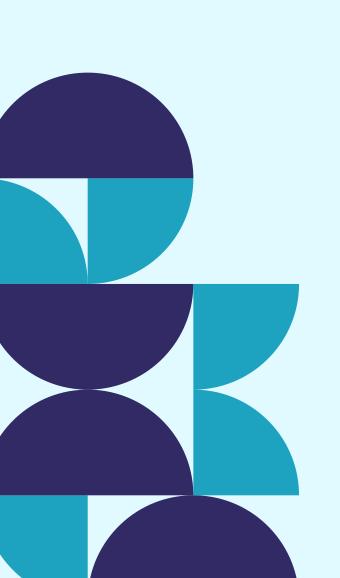
OBJECTIVES

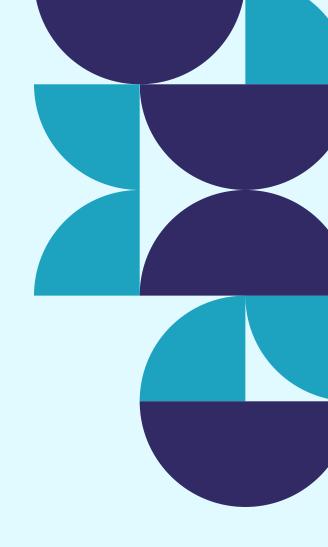
- Data Exploration
- Data Analysis

Insight Generation

SQL Proficiency







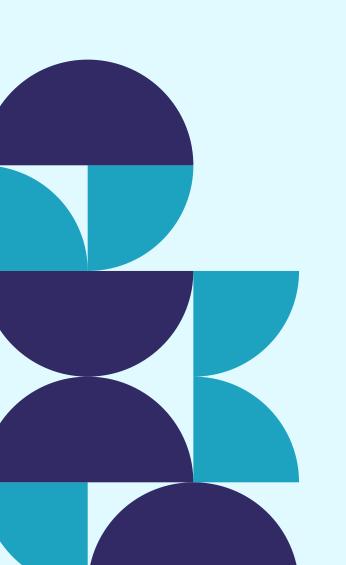
BASIC SELECT AND FILTERING

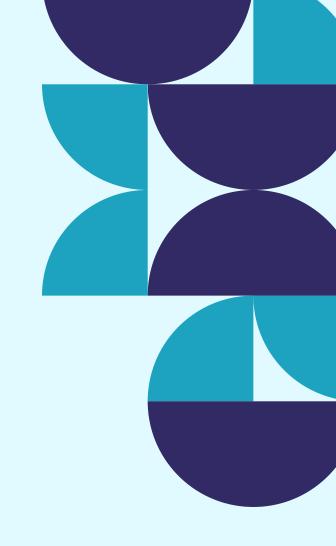
RETRIEVE ALL ORDERS WHERE THE DISCOUNT IS GREATER THAN 0.3 AND PROFIT IS



FROM superstore

WHERE Discount > 0.3 AND Profit > 0;





AGGREGATION WITH GROUP BY

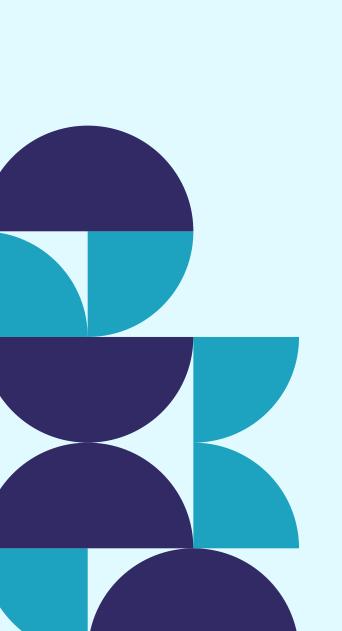
FIND THE TOTAL QUANTITY SOLD AND AVERAGE DISCOUNT PER SUB-CATEGORY.

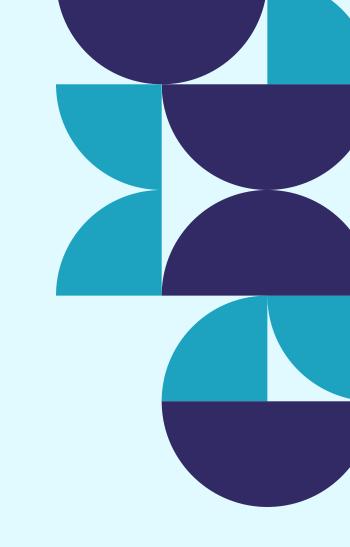


Total_Quantity,AVG(discount)

FROM superstore

GROUP BY SubCategory;





USING IN WITH MULTIPLE FILTERS

RETRIEVE ALL RECORDS WHERE THE CATEGORY IS EITHER 'FURNITURE' OR 'OFFICE SUPPLIES' AND THE SALES EXCEED \$500.

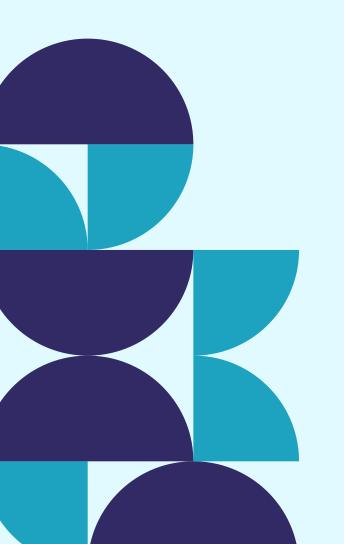




FROM superstore

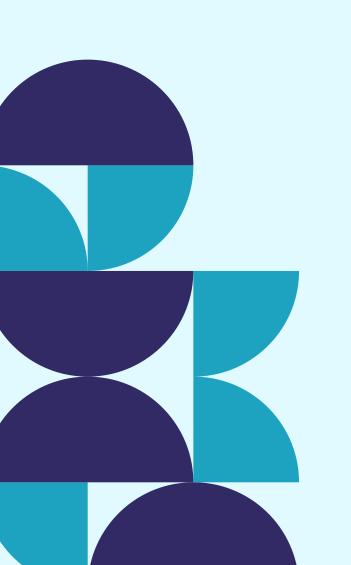
WHERE Category IN ('Furniture','Office Supplies') AND

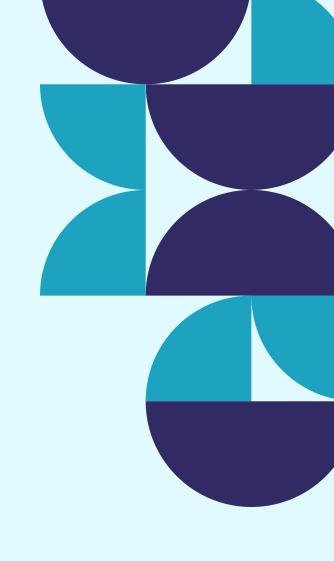
Sales > 500;



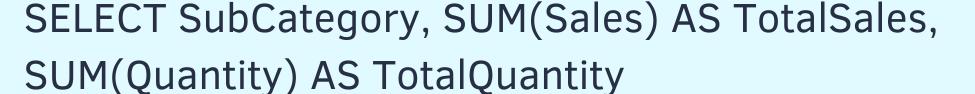
SUBQUERY RETRIEVE THE STATES WITH TOTAL SALES ABOVE THE AVERAGE SALES.

SELECT State, SUM(Sales) AS TotalSales
FROM superstore
GROUP BY State
HAVING TotalSales > (SELECT AVG(Sales) FROM superstore);





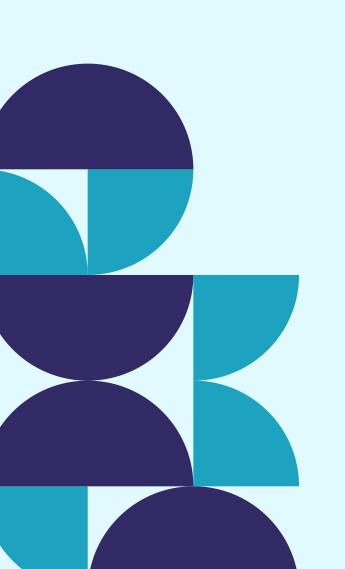
HAVING CLAUSE RETRIEVE SUB-CATEGORIES WHERE THE TOTAL SALES EXCEED \$10,000, AND TOTAL QUANTITY ORDERED IS GREATER THAN 100.

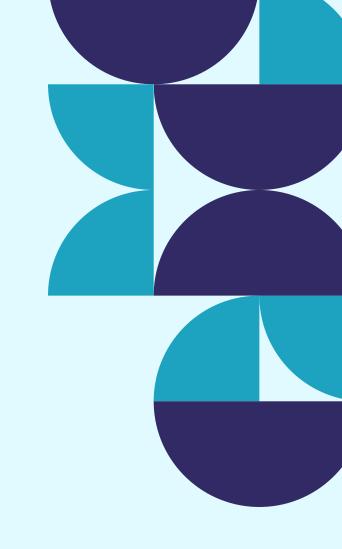


FROM superstore

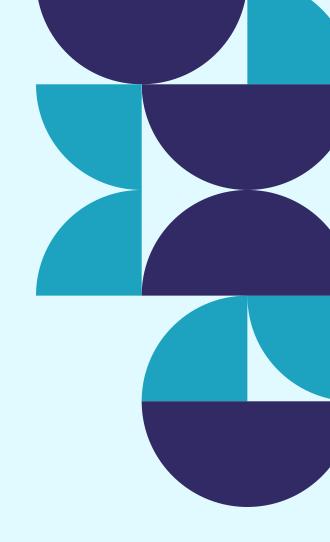
GROUP BY SubCategory

HAVING TotalSales > 10000 AND TotalQuantity > 100;

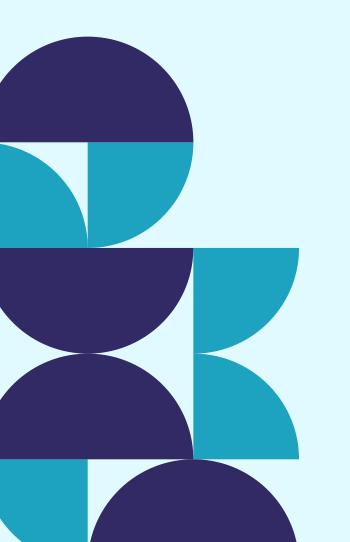




USING LIKE RETRIEVE ALL RECORDS WHERE THE CITY NAME STARTS WITH THE LETTER 'S.'



SELECT *
FROM superstore
WHERE City LIKE 'S%';



UNION

COMBINE TWO QUERIES: ONE THAT RETRIEVES ORDERS FROM THE "WEST" REGION, AND ANOTHER THAT RETRIEVES ORDERS FROM THE "EAST" REGION.

SELECT *

FROM superstore

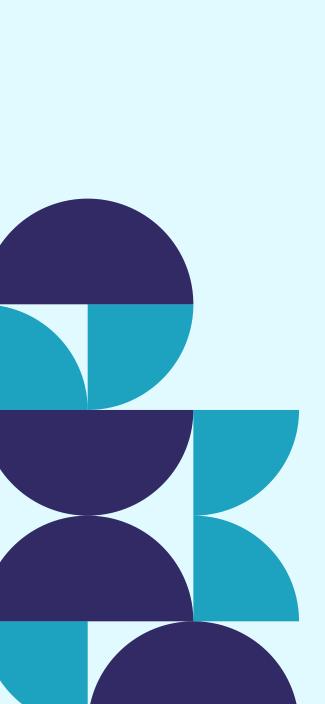
WHERE Region = 'West'

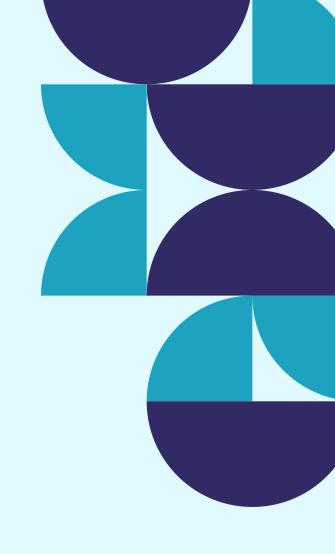
UNION

SELECT *

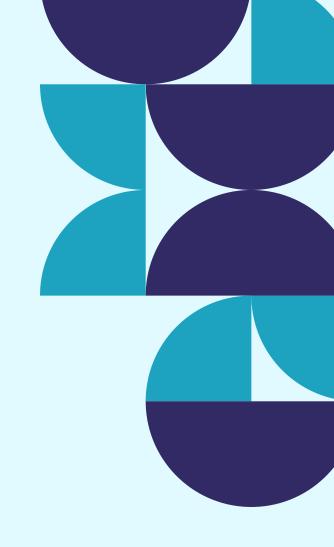
FROM superstore

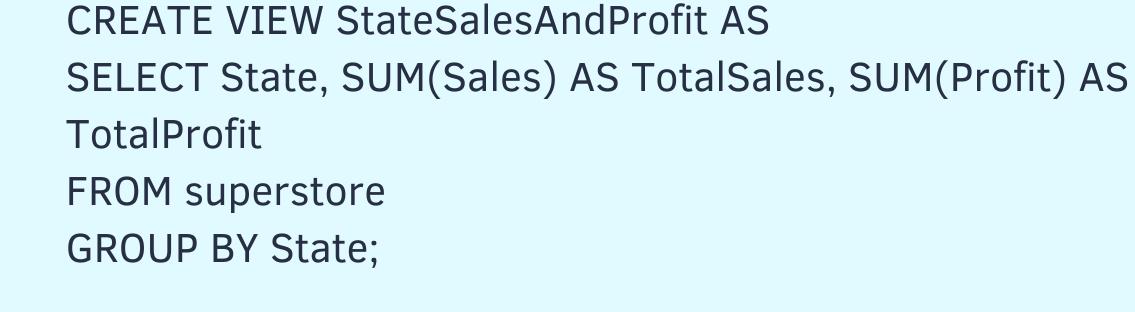
WHERE Region = 'East';

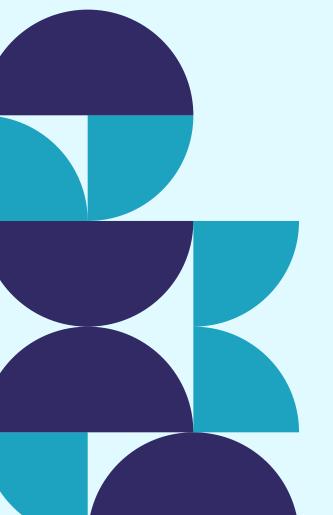




CREATE A VIEW THAT SHOWS THE TOTAL SALES AND PROFIT FOR EACH STATE.







RESULT

The results of the Superstore Sales Analysis Project provide actionable insights and recommendations based on the detailed analysis of sales, profit, and customer behavior.



Total sales across all regions and categories were analyzed. Significant contributions came from the "Office Supplies" category, followed by "Furniture" and "Technology."

The "Technology" category had the highest profit margins despite higher discounts, indicating a strong market for high-margin tech products.

Certain products and sub-categories, especially in "Furniture," had negative profit margins, suggesting inefficiencies or pricing issues.

Regional Insights -

Top Performing Regions:

The "West" and "East" regions contributed the most to overall sales and profit.

Low Performing Regions:

The "South" region lagged behind in both sales and profit, indicating potential for focused sales strategies or market expansion.

Profitability by State:

Certain states like California and New York performed exceptionally well in terms of both sales and profit, while others such as Texas showed lower profit margins despite reasonable sales.

Customer Segment Analysis -

Consumer Segment:

The "Consumer" segment accounted for the majority of sales, followed by "Corporate" and "Home Office."

Profit Contribution:

The "Corporate" segment was the most profitable, suggesting that targeting business customers could yield higher returns.

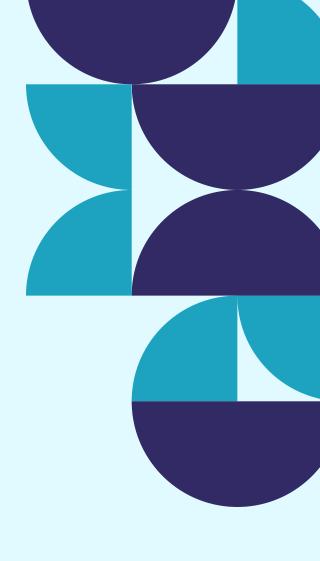
Discount Impact -

• High Discounts:

While higher discounts led to increased sales volumes, they negatively impacted profit margins, especially in the "Furniture" category.

Optimal Discounting:

Moderate discounts (10-20%) in the "Technology" category maintained profitability while boosting sales.



Shipping Mode Performance -

• Ship Mode Insights:

"Standard Class" was the most commonly used shipping mode, balancing cost and delivery time effectively.

Profit by Ship Mode:

"First Class" and "Same Day" shipping modes contributed to higher profitability per order despite higher costs, likely due to customer preference for faster delivery.

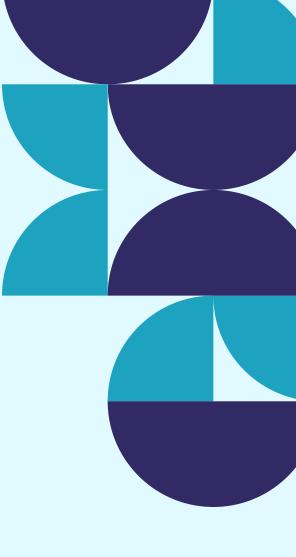


Top-Selling Products:

Certain products in the "Technology" category, like phones and accessories, were consistent top sellers.

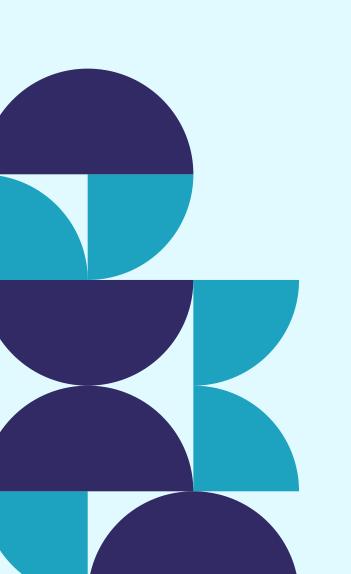
Underperforming Products:

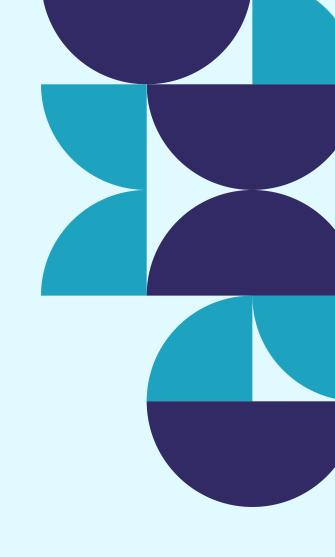
Large furniture items showed high sales but often resulted in low or negative profits, indicating potential for cost optimization or pricing review.



GONGLUSION

The Superstore Sales Analysis Project successfully highlighted critical areas for improvement and provided valuable insights into sales performance, customer behavior, and profitability. By implementing the recommended strategies, the superstore can enhance overall business performance, boost profitability, and better cater to customer needs.





RECOMMENDATION

- Re-evaluate pricing strategies for low-margin products, especially in the "Furniture" category, to improve profitability.
- Focus marketing efforts on high-performing regions like the "West" and "East," while exploring strategies to boost sales in underperforming regions such as the "South."
 - Develop tailored strategies for the "Corporate" segment to capitalize on its high profitability, such as exclusive offers or loyalty programs.
 - Apply moderate discounts selectively to maintain sales volume while protecting profit margins, especially in high-margin categories like "Technology."

GNITAGI

E MAIL - madhurjomajumder@gmail.com

PHONE - 9903587233

WEBSITE- https://kaboomincognito.github.io/kaboomwebsite/

