Global Superstore Performance Analysis

AGENIDA

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OVERVIEW

This project focuses on analyzing the Global Superstore dataset using Power BI to uncover critical insights related to sales, profits, shipping costs, and customer behavior. The dataset includes various fields such as order details, customer information, product categories, and financial metrics.

By leveraging Power Bl's visualization tools, we aim to create an interactive dashboard that highlights key performance indicators (KPIs) like total sales, profit margins, shipping costs, and customer segmentation. The report will allow business users to drill down into specific regions, segments, and products to make data-driven decisions that improve profitability and operational efficiency.

NTRODUCTION

The Global Superstore dataset provides a comprehensive view of a retail business's sales, shipping, and customer operations across different regions and segments. With data covering various aspects such as order details, customer demographics, product categories, and financial metrics, it offers an excellent opportunity to analyze the business's performance and identify areas for optimization.

OBJECTIVE

The objective of this project is to conduct a comprehensive analysis of the Global Superstore dataset to gain valuable business insights that can drive informed decision-making. Specifically, the project aims to:

- Evaluate Sales Performance
- Profitability Assessment
- Order and Sales Trends
- Actionable Insights

DATASET

The Global Superstore dataset contains transactional data from a retail superstore, providing a comprehensive view of sales, customer demographics, and operational metrics. Key columns in the dataset include:

- Order ID: Unique identifier for each order.
- Order Date: Date the order was placed.
- Ship Date: Date the order was shipped.
- Customer ID: Unique identifier for each customer.
- Customer Segment: Classification of customers (e.g., Consumer, Corporate, Home Office).
- Region: Geographic location of the customer (e.g., city, state, country).
- Product Category and Sub-Category: Classification of products sold.
- Sales: Total sales amount for each order.
- Profit: Profit generated from each order.
- Shipping Cost: Cost incurred for shipping the order.

This dataset enables analysis of sales performance, profitability, customer behavior, and logistical efficiency, making it a valuable resource for decision-making and strategic planning in retail operations.

Total Sales by Product Category

Insight: This shows the total sales for each product category.

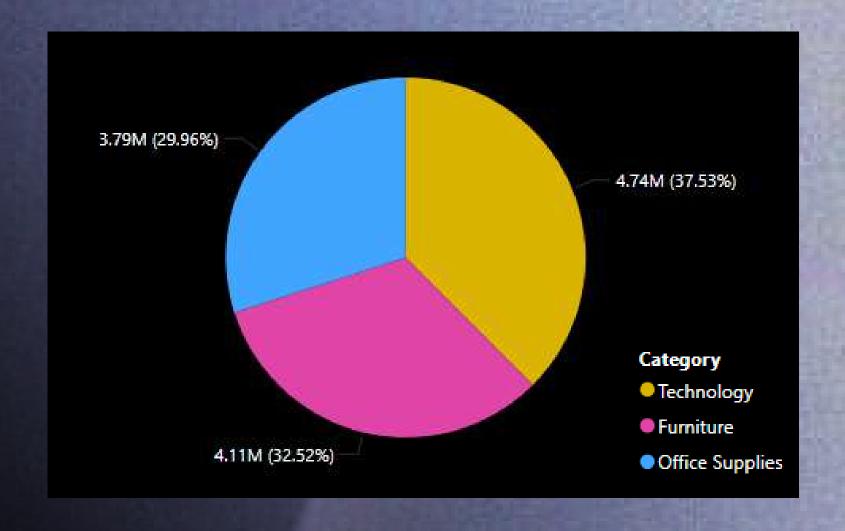
SQL Query

SELECT category, SUM(sales) AS total_sales

FROM superstore

GROUP BY category

ORDER BY total_sales DESC;



Sales and Profit Trend Over Time

Insight: Shows the trend of sales over time (by order year).

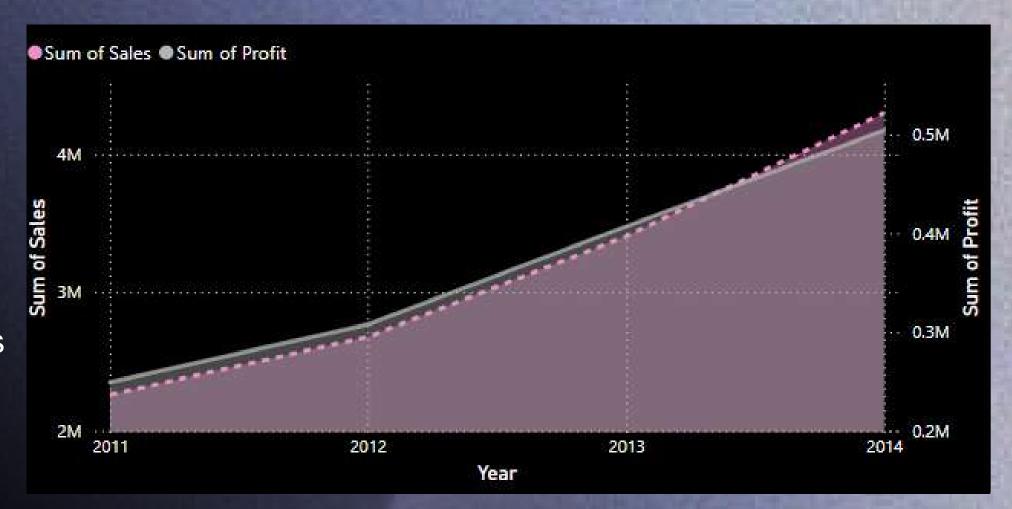
SQL Query

SELECT order_date, SUM(sales) AS total_sales

FROM superstore

GROUP BY order_date

ORDER BY order_date;



Profit Margin by Product Subcategory

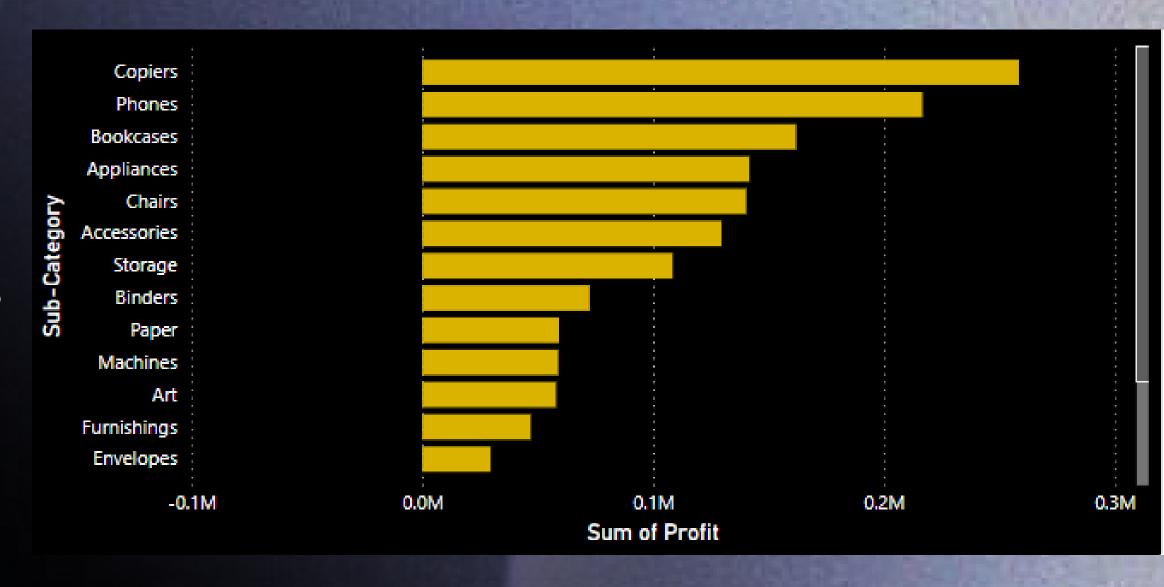
Insight: Displays profit by product subcategory.

SQL Query

SELECT sub_category, SUM(profit) AS total_profit

FROM superstore

GROUP BY sub_category
ORDER BY total_profit DESC;



Top 10 Customers by Sales

Insight: Shows the top 10 customers ranked by total sales.

SQL Query

SELECT customer_name, SUM(sales) AS total_sales

FROM superstore

GROUP BY customer_name

ORDER BY total_sales DESC

LIMIT 10;

Customer Name	Sum of Sales
Bart Watters	32,310.45
Christopher Conant	35,187.08
Fred Hopkins	30,400.67
Greg Tran	35,550.95
Hunter Lopez	30,243.57
Jane Waco	30,288.45
Natalie Fritzler	31,781.26
Sean Miller	35,170.93
Tamara Chand	37,457.33
Tom Ashbrook	40,488.07
Total	338,878.76

Sales by Region

Insight: Breaks down sales by region.

SQL Query

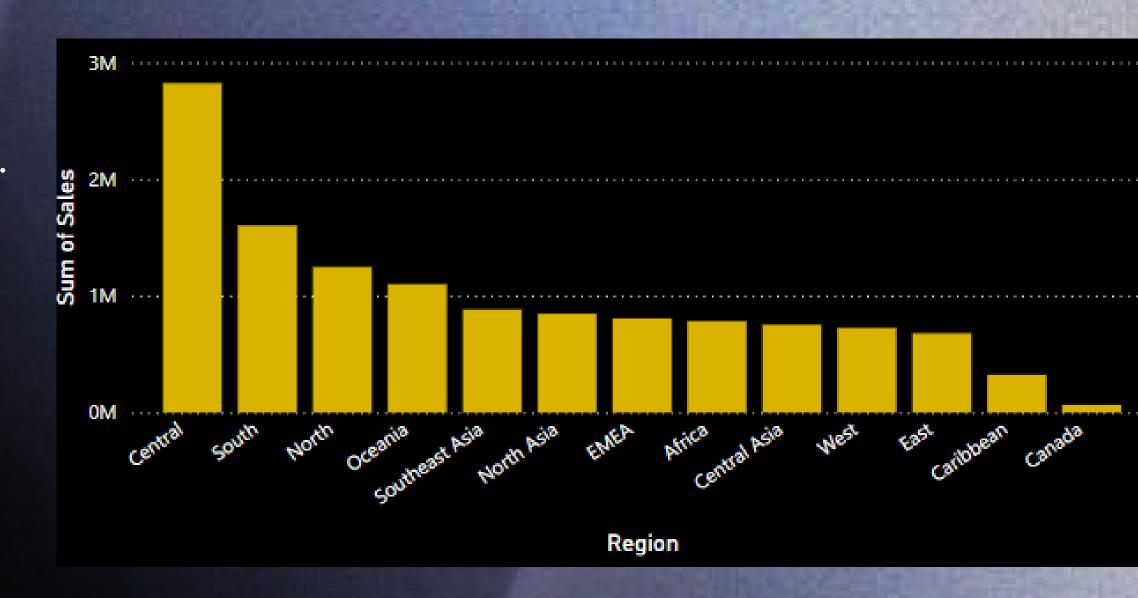
SELECT region, SUM(sales) AS

total_sales

FROM superstore

GROUP BY region

ORDER BY total_sales DESC;

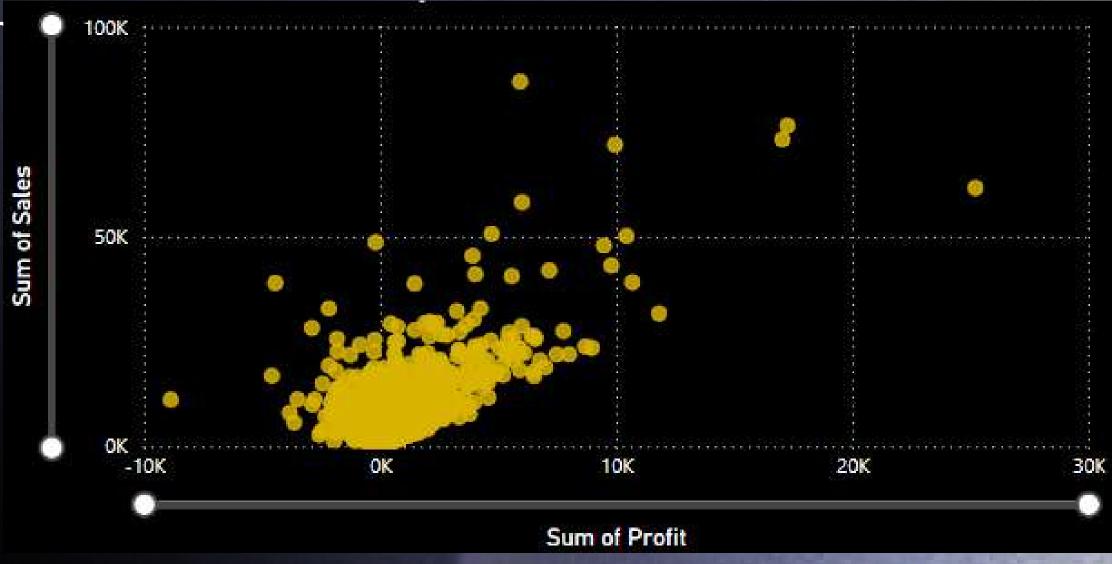


Sales vs. Profit

Insight: Compares sales and profit for each product to identify profitable products.

SQL Query

SELECT product_name, SUM(sales) AS total_sales, SUM(profit) AS total_profit FROM superstore
GROUP BY product_name
ORDER BY total_sales DESC;



Discounts Given by Product Category

Insight: Shows how discounts are distributed across product categories.

SQL Query

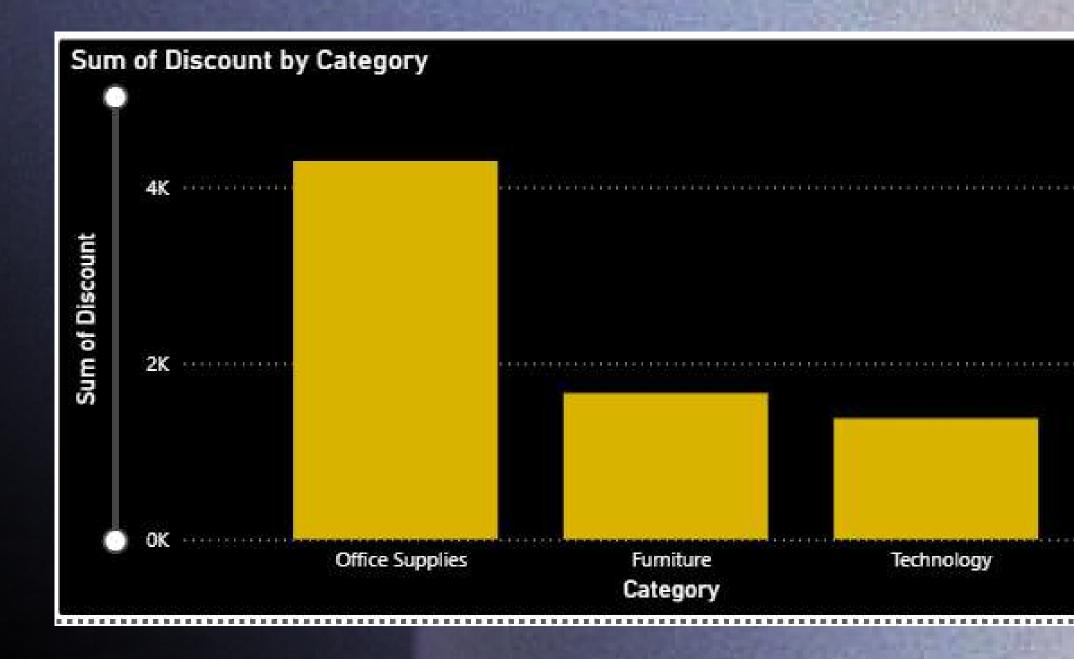
SELECT category, SUM(discount) AS

total_discount

FROM superstore

GROUP BY category

ORDER BY total_discount DESC;

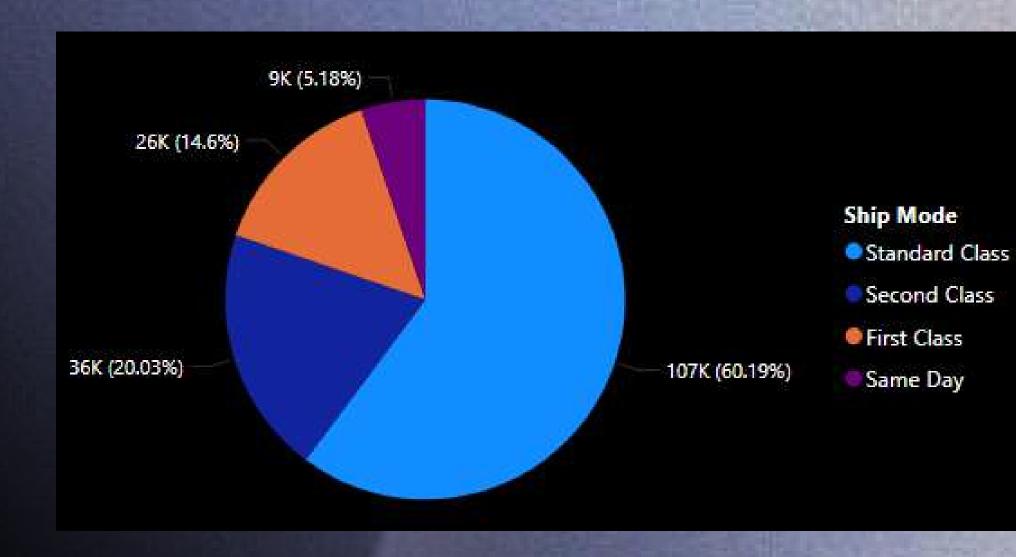


Order Quantity by Ship Mode

Insight: Displays the breakdown of order quantities by different shipping modes.

SQL Query

SELECT ship_mode, SUM(quantity) AS total_quantity
FROM superstore
GROUP BY ship_mode;



Order Priority Breakdown

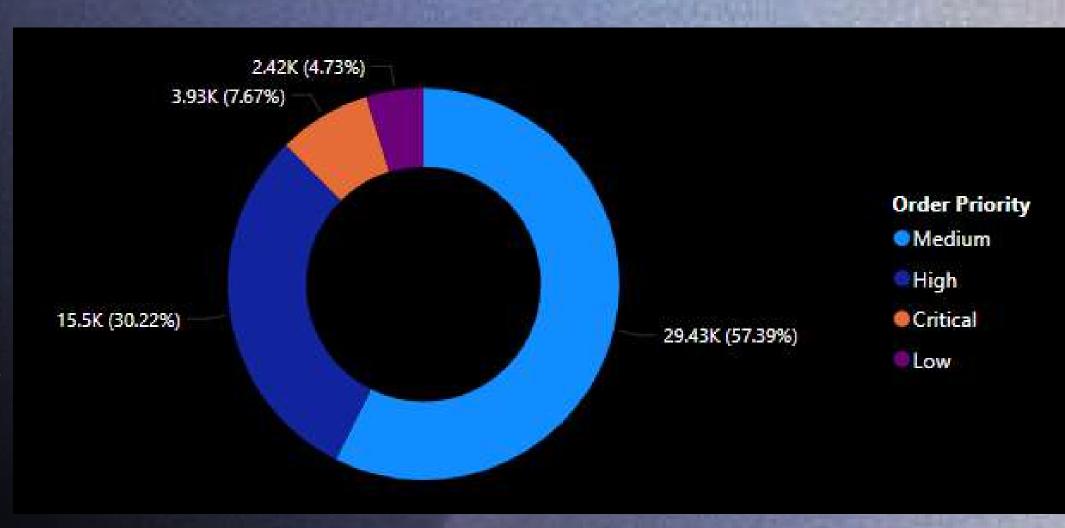
Insight: Provides insight into how orders are prioritized.

SQL Query

SELECT order_priority, COUNT(order_id) AS total_orders

FROM superstore

GROUP BY order_priority;

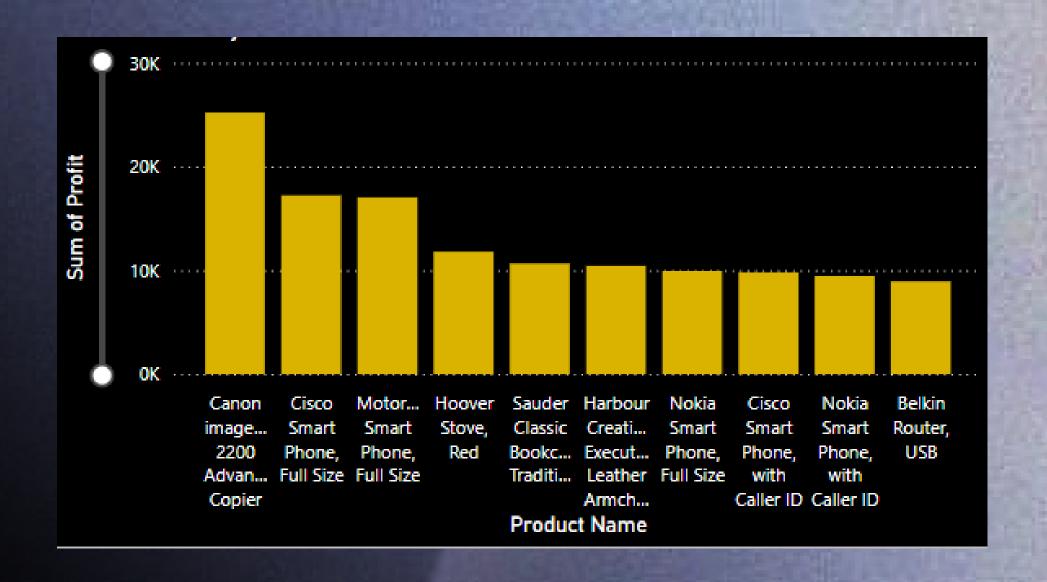


Top 10 Products by Profit

Insight: Displays the top 10 most profitable products.

SQL Query

SELECT product_name, SUM(profit) AS
total_profit
FROM superstore
GROUP BY product_name
ORDER BY total_profit DESC
LIMIT 10;

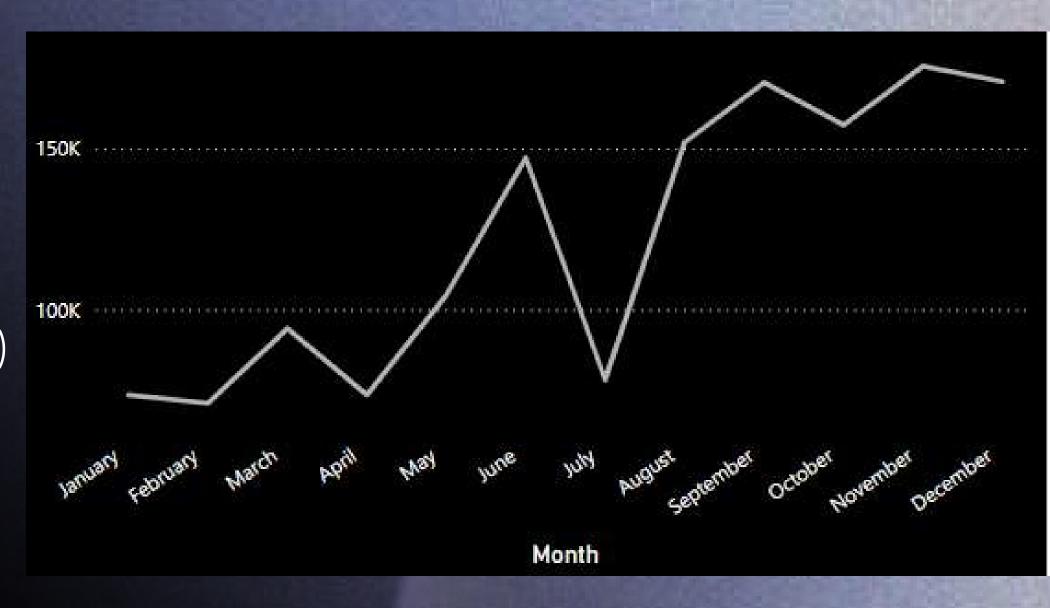


Profit Trend by Month

Insight: Shows the trend of profit over time (grouped by month).

SQL Query

SELECT EXTRACT(MONTH FROM order_date)
AS order_month, SUM(profit) AS total_profit
FROM superstore
GROUP BY order_month
ORDER BY order_month;



Sales vs. Shipping Costs

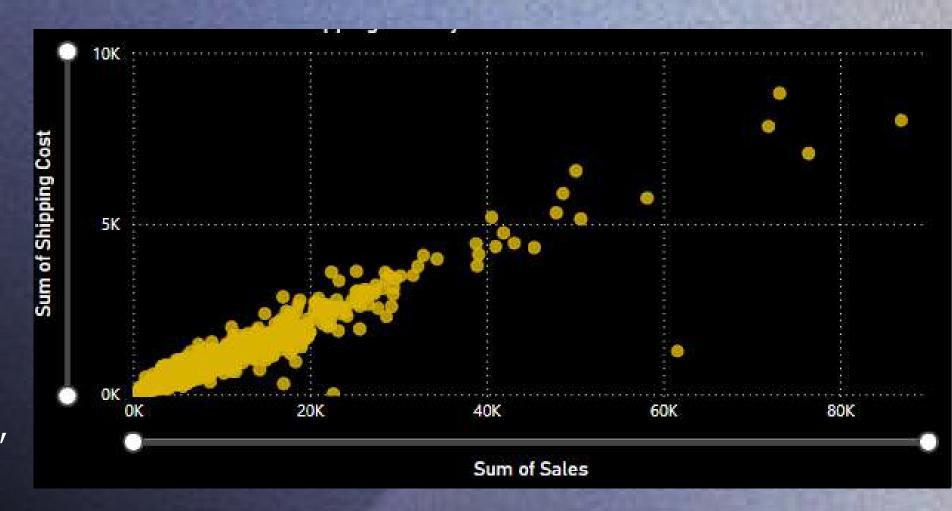
Insight: Compares sales with shipping costs for each product to identify costly shipping products.

SQL Query

SELECT product_name, SUM(sales) AS total_sales, SUM(shipping_cost) AS total_shipping_cost FROM superstore

GROUP BY product_name

ORDER BY total_sales DESC;

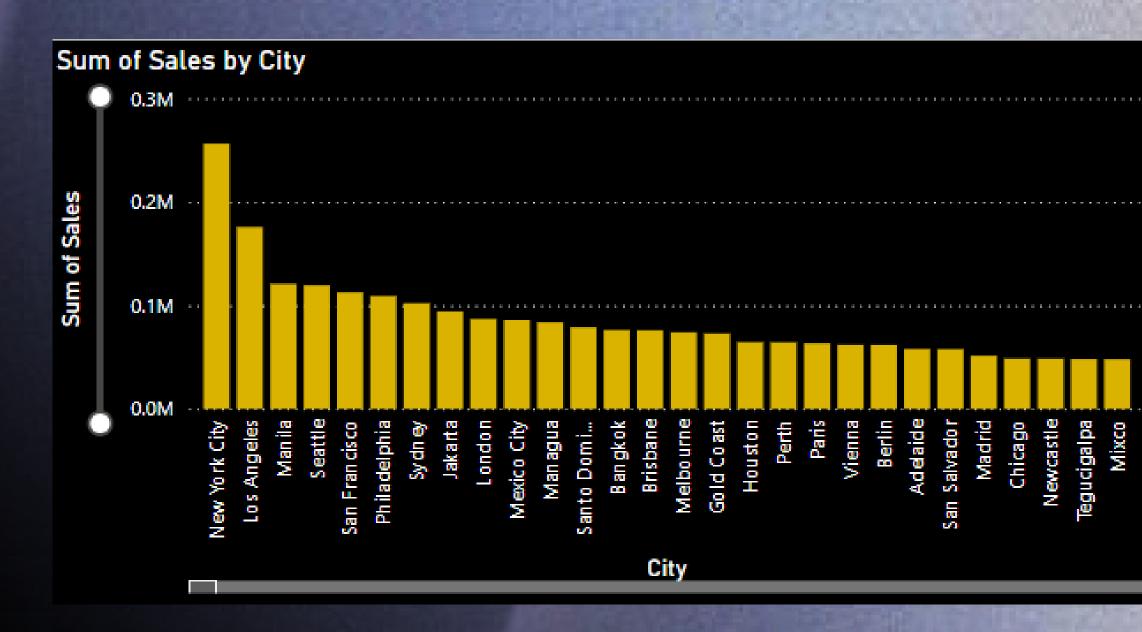


Sales by City

Insight: Displays total sales for each city.

SQL Query

SELECT city, SUM(sales) AS total_sales
FROM superstore
GROUP BY city
ORDER BY total_sales DESC;

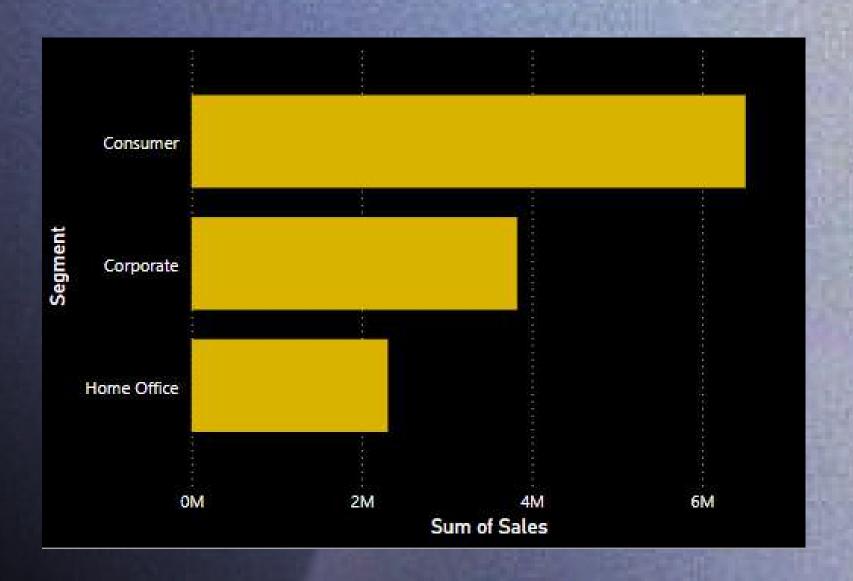


Sales Performance by Segment

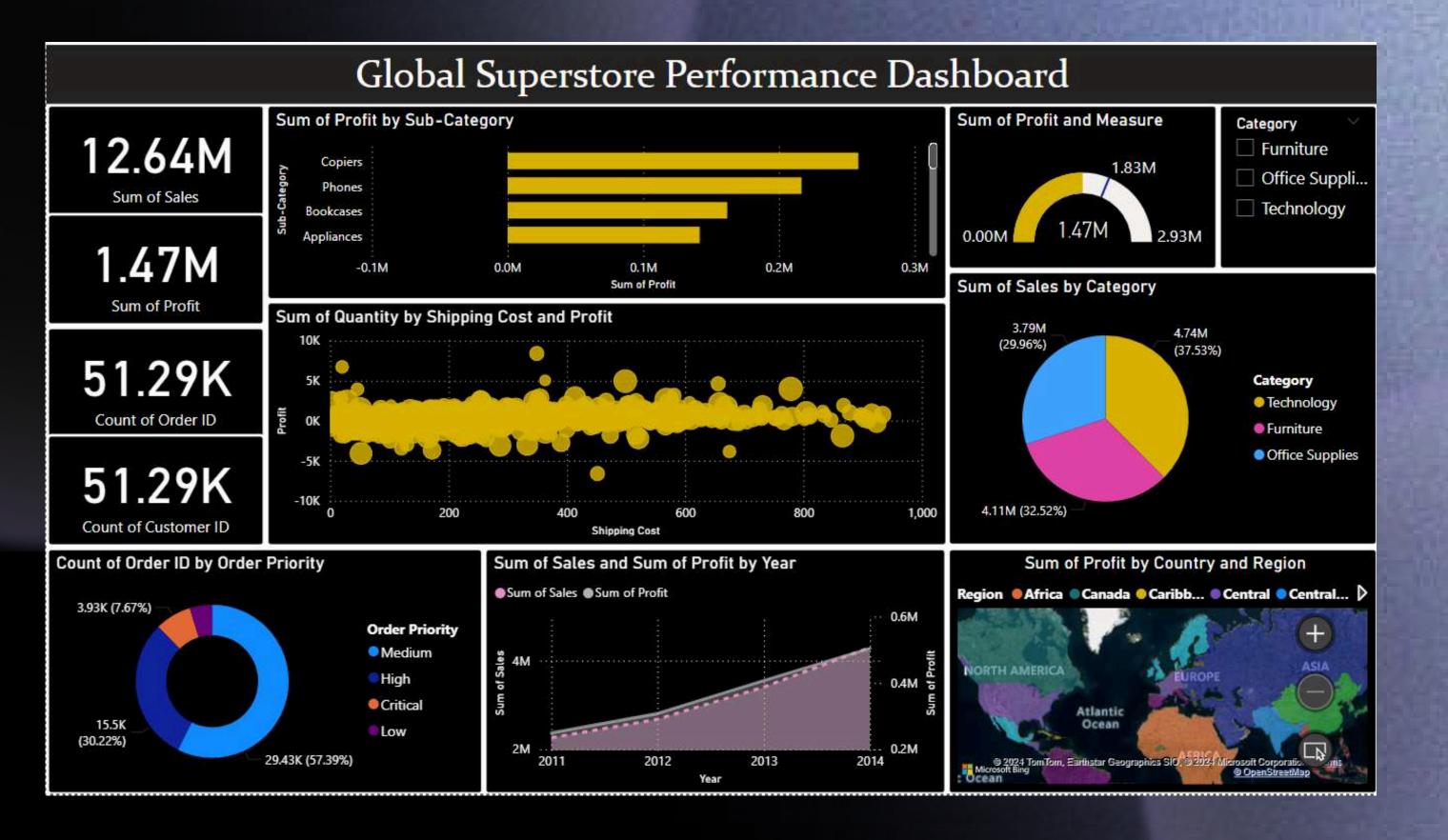
Insight: Compares sales performance across different customer segments.

SQL Query

SELECT segment, SUM(sales) AS total_sales
FROM superstore
GROUP BY segment
ORDER BY total_sales DESC;



DASHBOARD



RECOMMENDATION

Sales Department

- Focus on High-Performing Products: Emphasize marketing and sales efforts for the top-selling products identified in the dashboard. Implement targeted promotions or bundled offers to increase their appeal further.
- Enhance Regional Sales Strategies: Invest more in high-sales regions and explore growth opportunities in underperforming regions by adjusting regional sales strategies based on specific preferences and trends.

Marketing Department

• Leverage Customer Segmentation: Tailor marketing campaigns based on customer segments (e.g., Consumer, Corporate, Home Office). Focus on providing personalized experiences to high-value customer segments for better engagement and conversion.

RECOMMENDATION

- Promote Popular Product Categories: Based on category-wise sales analysis, prioritize marketing for high-demand categories. Run campaigns to increase awareness of underperforming categories in regions where they show potential.
- Seasonal Campaigns: Use sales trend analysis to identify peak periods and plan marketing campaigns around those times to maximize seasonal demand.

Finance Department

• **Profit Margin:** Focus on product categories and regions with lower profit margins. Adjust pricing or negotiate better supplier deals to improve margins in these areas.

RECOMMENDATION

• Cost Control on Shipping: Based on shipping cost analysis, identify regions with high shipping expenses relative to sales. Explore options to reduce shipping costs, such as optimizing delivery routes or adjusting minimum order values for free shipping.

Customer Service Department

- Prioritize High-Value Customers: Offer personalized support to high-value customers identified in the analysis to increase loyalty and repeat purchases.
- Improve Service in High-Return Regions: Identify any regions with frequent returns or customer service complaints and focus on improving service quality and satisfaction in those areas.

VALUABLEASPECTS

- Regional Sales: Major sales come from the U.S. and Europe; focusing marketing here can drive growth.
- **Profit by Category:** Office Supplies and Furniture are profitable; adjust costs for low-margin categories.
- Sales Trends: Sales peak seasonally; aligning campaigns with these peaks can boost revenue.
- Top Products: A few products dominate sales; maintaining stock is critical to avoid losses.
- Customer Segments: The Consumer segment leads in sales; retention efforts here can sustain growth.
- **Discount Impact:** High discounts reduce profit; optimizing discount strategy can increase margins.

CONCLUSION

The analysis of the Global Superstore dataset has provided actionable insights for improving various business areas. Utilizing Power Bl visualizations, we identified key sales trends, profit margins, and customer segments, highlighting opportunities to focus on high-performing regions and profitable product categories to boost revenue. Optimizing shipping costs and order prioritization can also lead to significant savings while enabling tailored marketing strategies.

Overall, this project offers Global Superstore a data-driven approach to decision-making, with an interactive Power Bl dashboard that tracks key metrics and performance. By leveraging these insights, the organization can better align resources and strategies to meet market demands and enhance efficiency.