# **My Project Overview:**

The SuperStore Multinational Dashboard is designed to provide a comprehensive visual analysis of sales and performance metrics for SuperStore, a multinational retail company. The dashboard is tailored to address specific queries and enhance decision-making processes for various stakeholders, including executives, managers, and analysts.

# [I] Design Phase

# Title of my client(s) who will use the dashboard

#### **CEO (Chief Executive Officer):**

- Interested in overall company performance, profits, and strategic insights.
- Focus on high-level trends and key performance indicators.

#### Sales Manager:

- Concerned with sales data, state-wise performance, and product categories.
- Interested in identifying top-selling states, profitable subcategories, and effective gender-based sales.

#### **Marketing Team:**

- May leverage insights on product categories and subcategories for targeted marketing strategies.
- Interested in trends related to age and gender for more effective campaigns.

#### **Finance Team:**

- Focus on financial aspects such as total revenue, net profit, and expenses.
- Concerned with monthly sales trends and overall financial health.

#### **Operations Team:**

- Interested in distribution of sales across different countries and states.
- May use data to optimize product offerings based on geographic demand.

#### **Human Resources:**

 May find value in age-related insights for workforce planning and engagement.

# All available data that will be provided by my client

#### Sales Data:

- Date: Information about the date of the sales transaction.
- Month: The month in which the sales occurred.
- Quantity: The quantity of products sold.
- Unit Cost: The cost of a single unit of the product.
- Unit Price: The selling price of a single unit of the product.
- Total Cost: The total cost of the products sold.
- Revenue: The total revenue generated from sales.
- Net Profit: The net profit calculated as Revenue minus Total Cost.

#### **Geographic Information:**

- Country: The country where the sales occurred.
- State: The state within the country where the sales occurred.

#### **Customer Demographics:**

- Age: The age of the customer.
- Gender: The gender of the customer.

#### **Product Information:**

- Product Category: The broader category to which the product belongs.
- Sub Category: A more specific category or classification of the product.

#### Miscellaneous:

Age Status: A status or category related to the customer's age.

# Required questions that my dashboard will answers

#### **Sales Performance:**

What is the overall trend in sales over the selected time period? How do sales vary across different product categories? Which countries contribute the most to total revenues? What are the top 10 states with the highest sales figures? Which states have the lowest sales figures?

# **Profitability:**

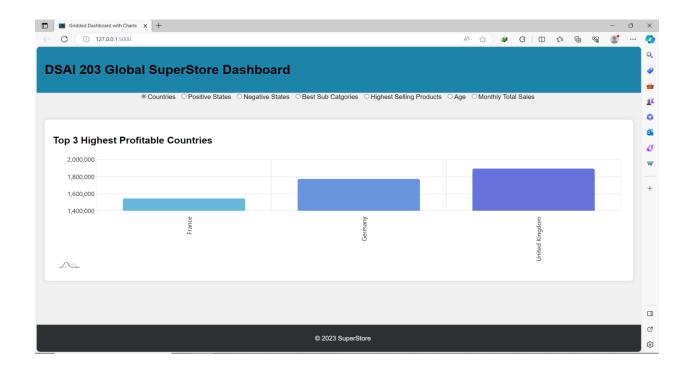
What is the overall trend in profits over the selected time period?
What are the top 3 most profitable subcategories in terms of revenues?
What is the distribution of profits across different states?
What is the profitability status based on customer age?

# **Product Analysis:**

What are the top 5 best-selling products globally?
Which subcategories are the most profitable in terms of net profit margin?
How does the distribution of sales vary across different age groups?
What is the gender-wise distribution of sales and profits?

#### **Miscellaneous:**

How does the distribution of sales vary across different age groups?
What is the monthly total sales revenue pattern?
What is the most effective gender in terms of positive profit contribution?



**Legend: Visible** 

**Colors:3** diffrent shades of blue

**Title: Top 3 Heights Profitable Countries** 

Visibility: When clicking on the radio button

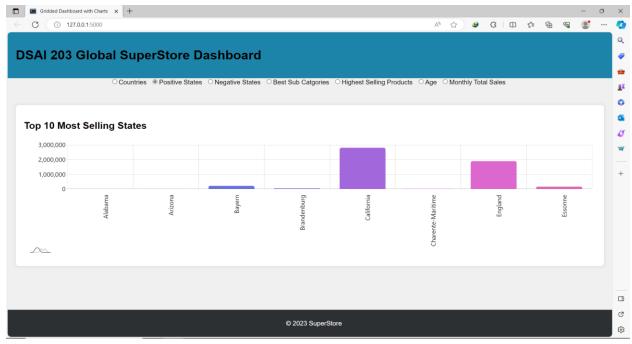
**Axis Titles:** X-axis (Countries), Y-axis (Reveneau)

#### **Questions Answered:**

What are the top three countries with the highest sales?

Which countries contribute the most to total revenues?

Justification: Bar charts are one of the best charts for comparing the contribution of different countries to the total sales and it gives at a glance the best-selling country due its simplicity and efficiency.



**Legend: Visible** 

Colors: Mix of Light pink, purple and different shades of blue

**Title: Top 10 Most Selling States** 

Visibility: When clicking on the radio button

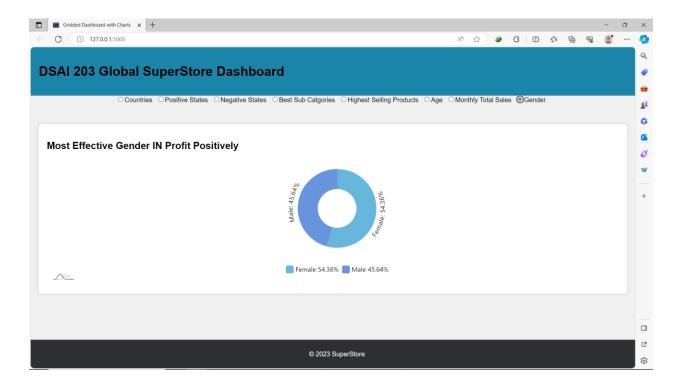
Axis Titles: X-axis (States), Y-axis (Revenue)

#### **Questions Answered:**

What are the top 10 states with the highest sales figures?

What is the distribution of profits across different states?

Justification: Bar charts are one of the best charts for comparing the contribution of different countries to the total sales and it gives at a glance the best selling country due its simplicity and efficency.



**Chart Type: Donut Chart** 

**Legend: Visible** 

**Colors:2** different shades of blue

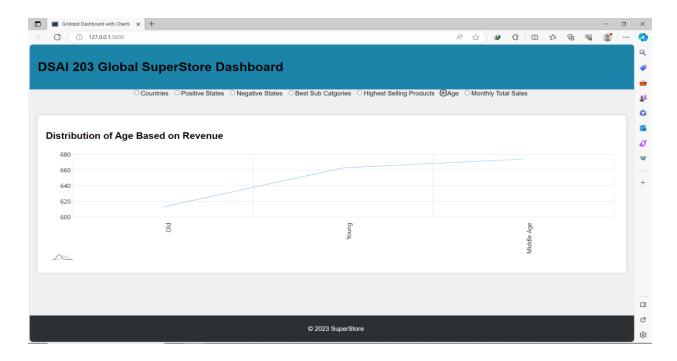
**Title: Most Effective Gender IN Profit Positively** 

Visibility: When clicking on the radio button

#### **Questions Answered:**

What is the gender-wise distribution of sales and profits?

Justification: Donut chart is the best chart to identify the distribution between distinct categories especially if there are two categories in this chart male and female so it gives us at a glance the exact percentage between males and females.



**Chart Type: Line Chart** 

**Legend: Visible** 

**Colors: Light Blue** 

**Axis Titles:** X-axis (Age Status), Y-axis (Revenue)

**Title:** Distribution of Age Based on Revenue

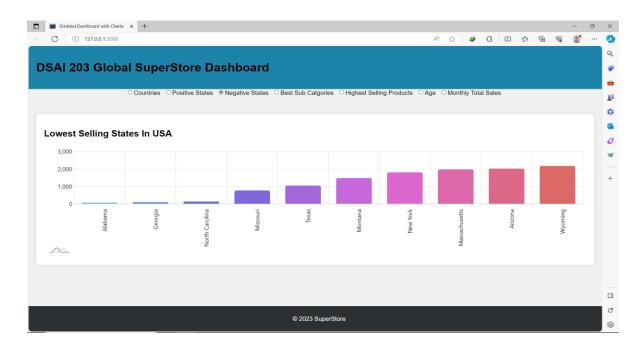
Visibility: When clicking on the radio button

#### **Questions Answered:**

What is the profitability status based on customer age?

How does the distribution of sales vary across different age groups?

Justification: I choose Line chart here because it is effective for showing trends of the revenue based on the ages so effectively it will give me the age who is the most effective positively over the revenue.



**Legend: Visible** 

**Colors:** Mix shadows of Light pink, purple and different shades of light blue

**Title: Lowest Selling States in USA** 

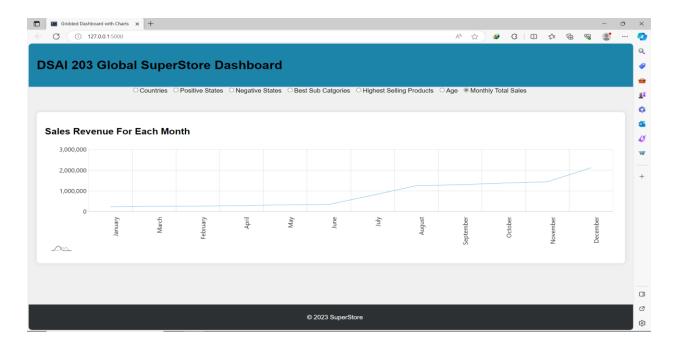
Visibility: When clicking on the radio button

**Axis Titles:** X-axis (States), Y-axis (Revenue)

#### **Questions Answered:**

Which states have the lowest sales figures?

Justification: Bar charts isone of the best charts for comparing the contribution of different countries to the total sales and it gives at a glance the best selling country due its simplicity and efficency.



**Chart Type: Line Chart** 

**Legend: Visible** 

**Colors: Light Blue** 

**Axis Titles:** X-axis (Months), Y-axis (Revenue)

Title: Distribution of Age Based on Revenue

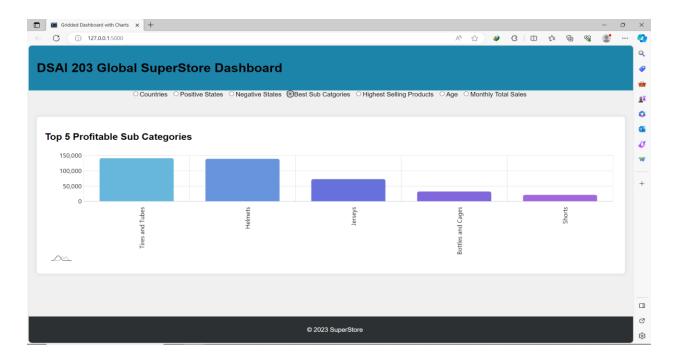
Visibility: When clicking on the radio button

#### **Questions Answered:**

What is the monthly total sales revenue pattern?

What is the overall trend in profits over the selected time period?

Justification: I choose Line chart here because it is effective for showing trends of the revenue based on the ages so this chart visualizes the trend in monthly sales revenue, allowing for easy identification of patterns.



**Legend: Visible** 

**Colors:** Mix shadows of Light pink, purple and different shades of light blue

**Title: Top 5 Profitable Product Sub Categories** 

Visibility: When clicking on the radio button

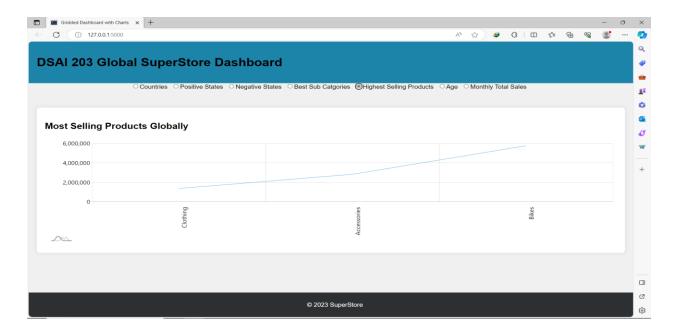
**Axis Titles:** X-axis (Sub Products), Y-axis (Profit)

#### **Questions Answered:**

How do sales vary across different product categories?

What are the top 5 best-selling Sub products globally?

Justification: Bar charts is one of the best charts for comparing the contribution of different products to the total sales(profit) and it gives at a glance the best-selling product due its simplicity and efficiency.



**Chart Type: Line Chart** 

**Legend: Visible** 

**Colors: Light Blue** 

**Axis Titles:** X-axis (Products), Y-axis (Revenue)

**Title: Most Selling Products Globally** 

Visibility: When clicking on the radio button

#### **Questions Answered:**

What are the top 5 best-selling products globally?

Justification: I choose Line chart here because it is effective for showing trends of the profit based on the products so this chart visualizes the trend in sales' revenue, allowing for easy identification of patterns of profitability.

# Why i selected these positions for each chart, title, buttons, colors?

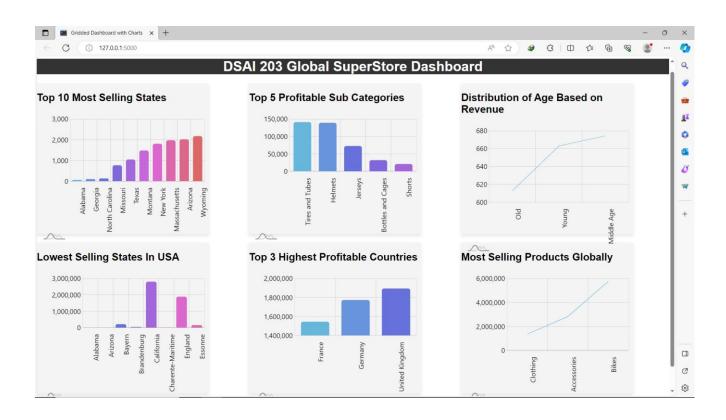
I wanted my insights to be clear, and fast to get the point from, so i choose to make the charts in the full screen mode. In addition, choose light cool colors to make the eyes of the client's only focus on the insight not the color and its brightness. I also decided to make the radio button in the front of the screen to make the axis clear and to make it easy to use. The title of the charts are very clear and on point to make the full benefit of the chart and to reduce the probability of any confusion that may occur so the decision makers could make their decision correctly and wisely.

# Points that may be criticized in my design layout

My layout could be cretisized in one point which is what if the clients want to see all the charts behind each other after they saw in the full screen mood so they take the full overview of the all the charts in the dashboard together

#### But i resolved this issue

I made a layout for the full dashboard so after they see the detailed charts one by one they will see the overall dashboard, but it also has disadvantage of the size of it in the full screen mode will make the charts smaller and somehow hard to read and to make it clear I had to remove the donut chart so it look nice and cool like this, so every layout has its strength and weakness.



# Analysis of the second layout positions

I strategically positioned the states with the highest sales on the left side,

intending to capture the client's immediate attention. Below this, a detailed chart highlights the performance of the lowest-selling states, providing clients with insights into both profitable and challenging markets.

#### In the middle section,

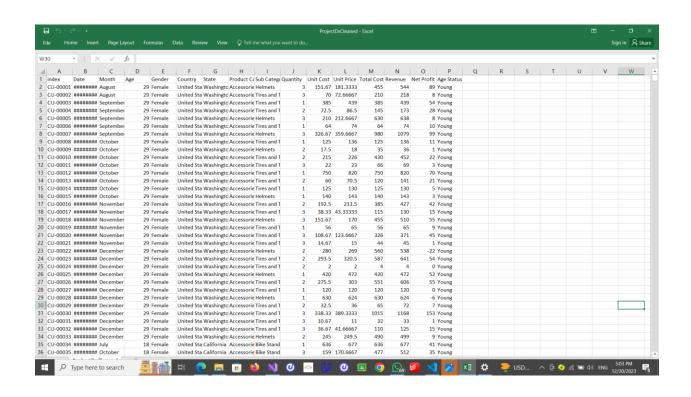
I focused on the most selling subcategory, presenting a breakdown of the best-selling countries within that subcategory. This ensures that clients receive comprehensive information about specific product segments and the key contributors to overall sales.

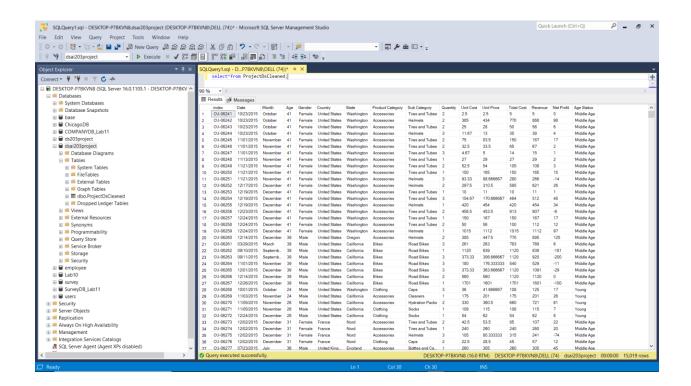
#### On the right side,

I incorporated line charts due to their visual prominence and the clarity they offer in depicting trends. This placement allows clients to quickly identify patterns and shifts in sales data.

The layout I made not only enhances visual appeal but also facilitates a swift and intuitive grasp of the sales performance.

# **Snapshot of the provided data (as tables)**





# Suggested future work

1-I want to be able to make my dashboard user could Personalize it for example,

Allow users to customize the dashboard according to their preferences. This could include adjustable periods, the ability to choose specific metrics, or personalized data views.

- 2-Real-time Data Updates: I want to be able to implemented real-time data updates to provide users with the latest information. This is crucial for industries where data changes rapidly not a static database.
- 3- Mobile Responsiveness: I want my dashboard to be mobile-friendly so who need to access information immediately does not with running the coding files. A responsive design improves accessibility and usability across various devices.