

# Q1. Power BI Platform

## What is PowerBI and What are the various Platforms of Power BI?

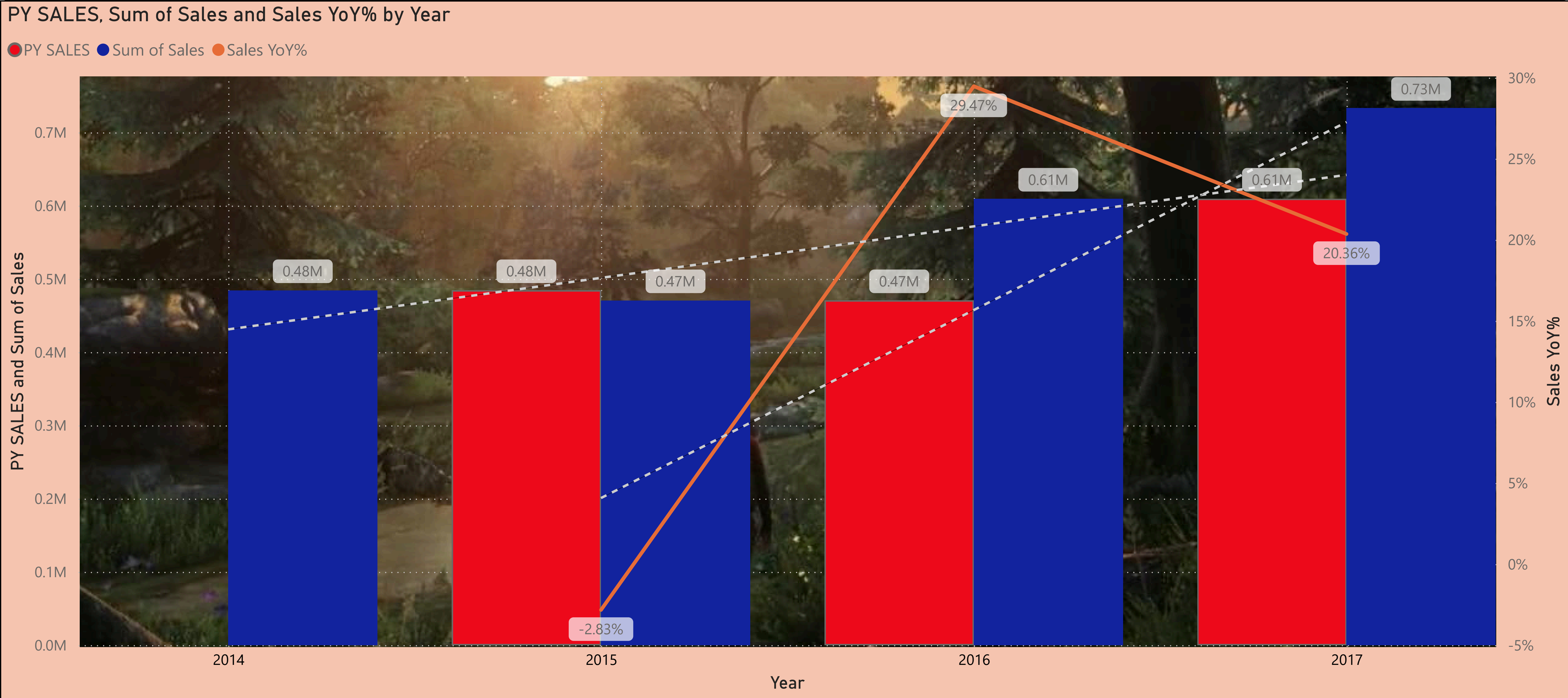
Power BI is a tool by Microsoft that helps you **analyze data and create reports & dashboards**. It makes it easy to turn raw numbers into **insights** using interactive charts and graphs. Businesses use it to make better decisions based on data.

Various platforms are:-

- . **Power BI Desktop** .
- . **Power BI Service**
- . **Power BI Mobile**
- . **Power BI Report Server**

# Q2. Dax

Create a line and clustered column chart and compare this year vs last year's sales along with growth % using DAX? Refer superstore dataset



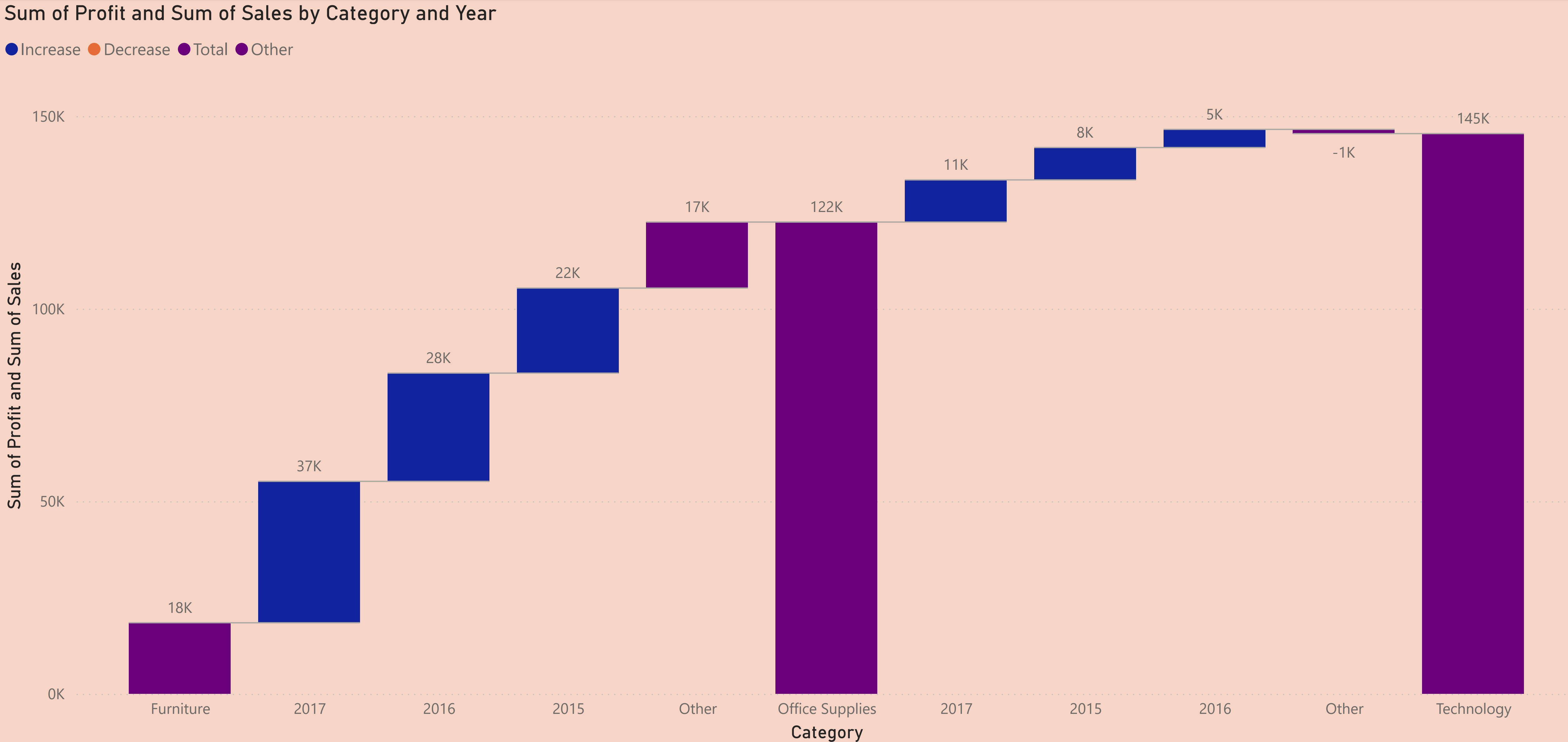
### Q3. Data Modeling

Import data from [2023 Worldwide Box Office - Box Office Mojo](#) and add the past 3 years of data in the Power Query editor, create a master table of the past 3 years of data, and load only master data in the Power BI query editor or Power BI desktop?

| %       | Sum of Rank | Sum of Worldwide |
|---------|-------------|------------------|
| + -     | 29694       | \$9,755,725,154  |
| + 100%  | 536         | \$70,788,690     |
| + 1.5%  | 441         | \$76,190,516     |
| + <0.1% | 359         | \$2,577,095,044  |
| + 19.3% | 356         | \$16,832,731     |
| + 10.3% | 338         | \$19,443,779     |
| + 0.6%  | 309         | \$174,427,634    |
| + 2.3%  | 295         | \$30,690,664     |
| Total   | 60300       | \$65,632,595,629 |

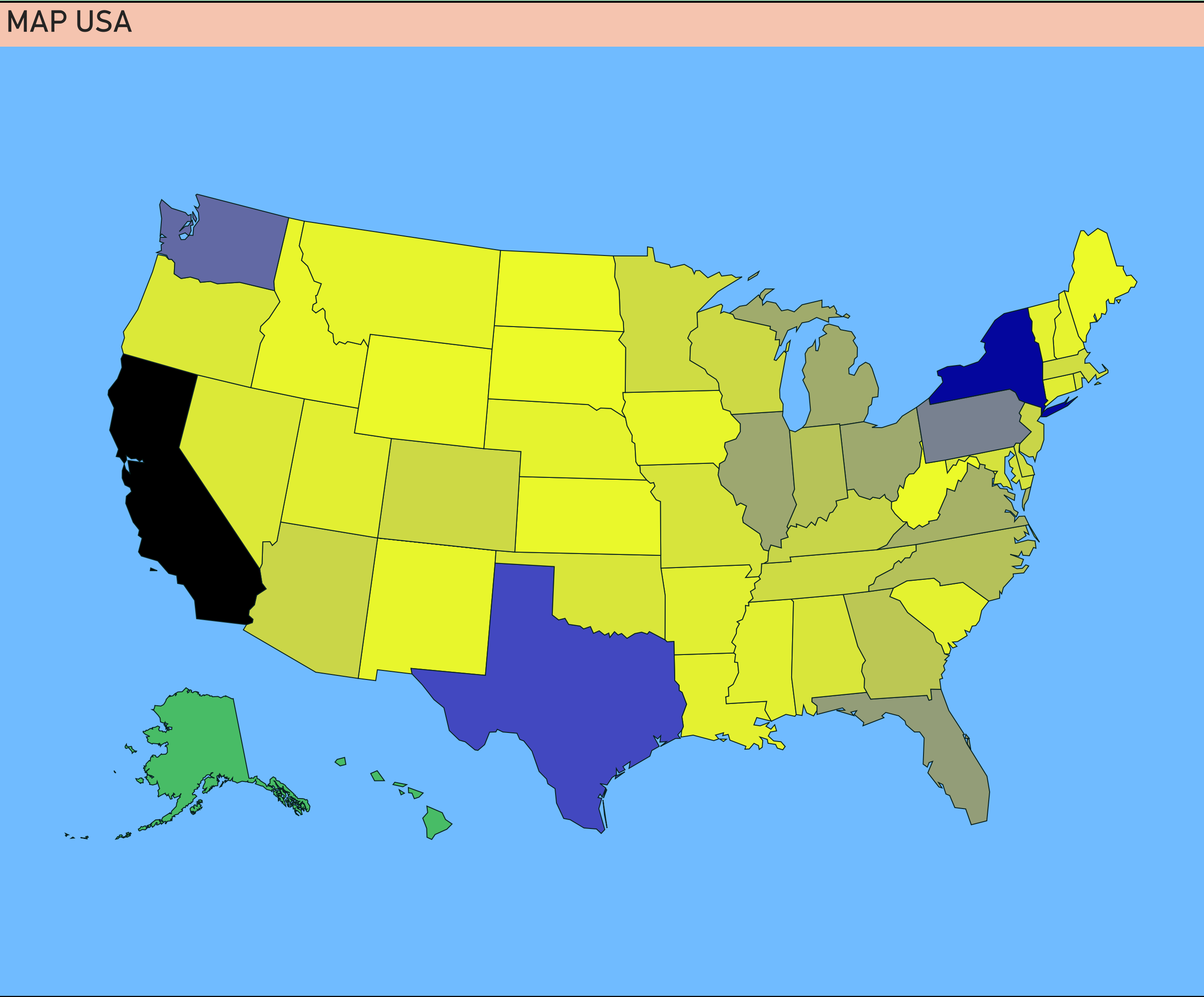
# Q4. Waterfall chart\_

Create the Waterfall Chart to show Category-wise, Yearly Analysis using Superstore Dataset.



Q5. Hierarchy: -

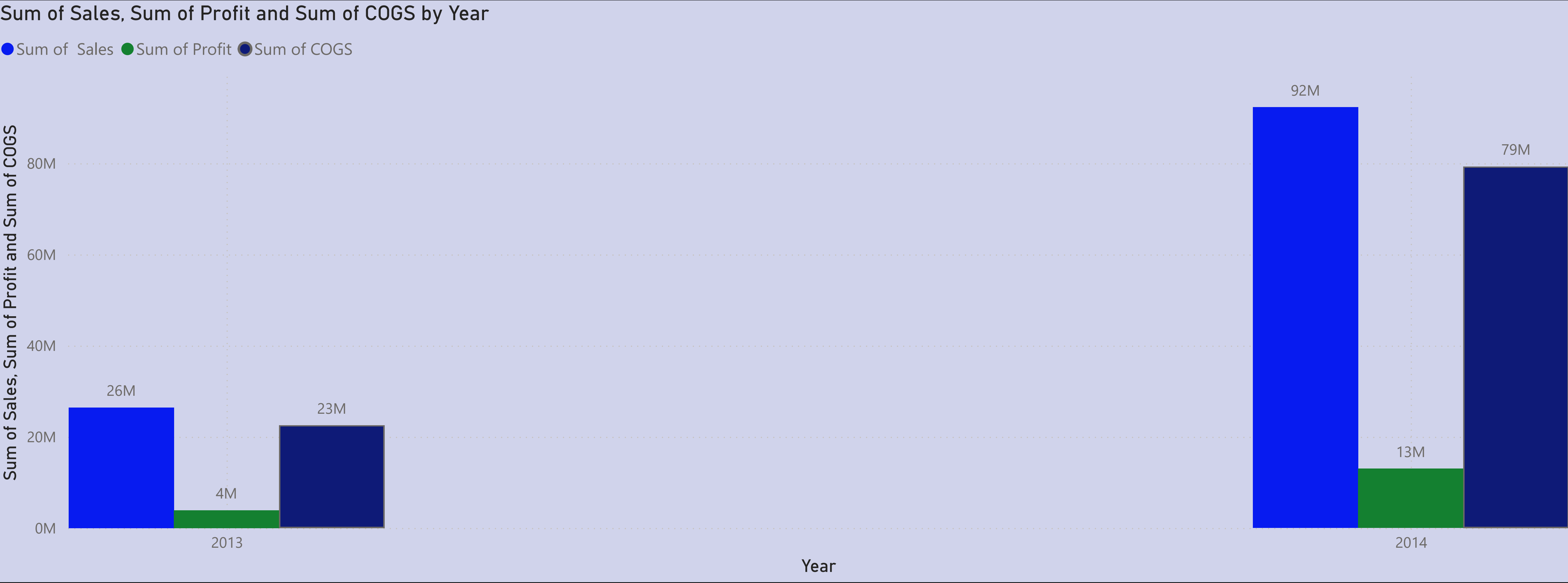
Create the Hierchey and rename with Location for Country-State-Region-City -Postal Code and Show the Location wise Sales using Superstore Dataset.



| Country       | State    | Region | City          | Postal Code | Sum of Sales | Sum of Profit |
|---------------|----------|--------|---------------|-------------|--------------|---------------|
| United States | Alabama  | South  | Auburn        | 36830       | 1,766.83     | 452.61        |
| United States | Alabama  | South  | Decatur       | 35601       | 3,374.82     | 1,000.09      |
| United States | Alabama  | South  | Florence      | 35630       | 1,997.35     | 248.66        |
| United States | Alabama  | South  | Hoover        | 35244       | 525.85       | 18.72         |
| United States | Alabama  | South  | Huntsville    | 35810       | 2,484.37     | 1,005.26      |
| United States | Alabama  | South  | Mobile        | 36608       | 5,462.99     | 2,175.83      |
| United States | Alabama  | South  | Montgomery    | 36116       | 3,722.73     | 834.66        |
| United States | Alabama  | South  | Tuscaloosa    | 35401       | 175.70       | 51.01         |
| United States | Arizona  | West   | Avondale      | 85323       | 946.81       | 76.17         |
| United States | Arizona  | West   | Bullhead City | 86442       | 22.29        | 6.72          |
| United States | Arizona  | West   | Chandler      | 85224       | 1,076.75     | 81.46         |
| United States | Arizona  | West   | Gilbert       | 85234       | 4,172.38     | 138.25        |
| United States | Arizona  | West   | Glendale      | 85301       | 2,917.87     | 182.86        |
| United States | Arizona  | West   | Mesa          | 85204       | 4,037.74     | -559.23       |
| United States | Arizona  | West   | Peoria        | 85345       | 1,341.35     | -55.11        |
| United States | Arizona  | West   | Phoenix       | 85023       | 11,000.26    | -2,790.88     |
| United States | Arizona  | West   | Scottsdale    | 85254       | 1,466.31     | -89.49        |
| United States | Arizona  | West   | Sierra Vista  | 85635       | 76.07        | 16.83         |
| United States | Arizona  | West   | Tempe         | 85281       | 1,070.30     | 95.45         |
| United States | Arizona  | West   | Tucson        | 85705       | 6,313.02     | -64.97        |
| United States | Arizona  | West   | Yuma          | 85364       | 840.87       | -465.99       |
| United States | Arkansas | South  | Conway        | 72032       | 301.96       | 45.29         |
| United States | Arkansas | South  | Fayetteville  | 72701       | 3,742.81     | 1,691.94      |
| United States | Arkansas | South  | Hot Springs   | 71901       | 245.83       | 62.08         |
| Total         |          |        |               |             | 2,297,200.86 | 286,397.02    |

Q6. Book mark

Create a clustered column chart referring to the order date and sales, then apply bookmarks based on date Year, Quarter, and Month using Finance Dataset.



|       |     |      |
|-------|-----|------|
| month | QTR | YEAR |
|-------|-----|------|

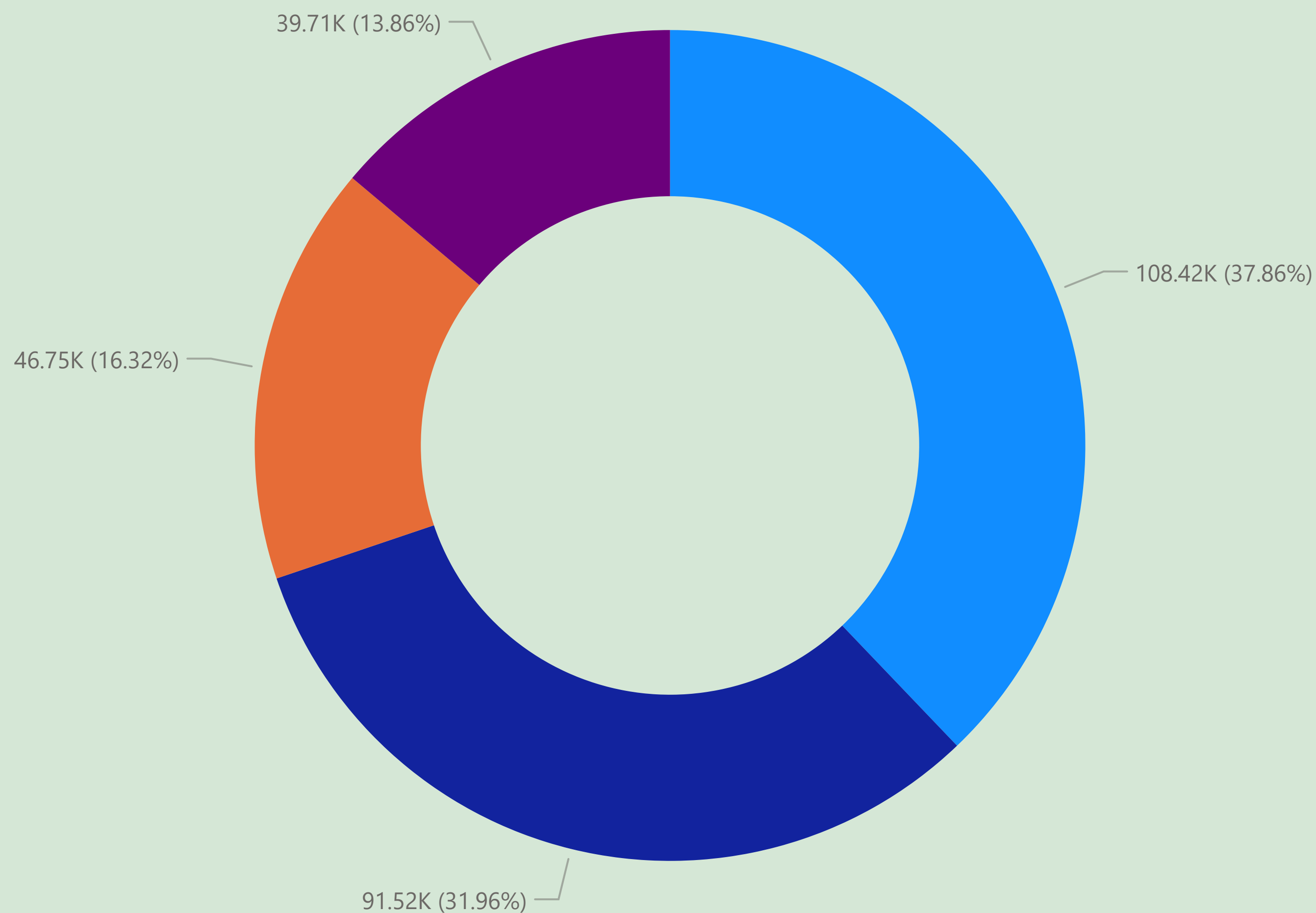


## Q7. Drill through



Create Donut Chart to Show region wise Profit and Drill through the other page with West Region using Superstore Dataset

Sum of Profit by Region



### Region

West

East

South

Central



# East

First Region

| Region | Sum of Profit | Category        | Sub-Category |
|--------|---------------|-----------------|--------------|
| East   | 17,022.84     | Technology      | Copiers      |
| East   | 12,314.69     | Technology      | Phones       |
| East   | 11,267.93     | Office Supplies | Binders      |
| East   | 11,195.86     | Technology      | Accessories  |
| East   | 9,357.77      | Furniture       | Chairs       |
| East   | 9,015.37      | Office Supplies | Paper        |
| East   | 8,391.41      | Office Supplies | Appliances   |
| East   | 8,389.37      | Office Supplies | Storage      |
| East   | 6,928.64      | Technology      | Machines     |
| East   | 5,881.41      | Furniture       | Furnishings  |
| East   | 1,899.94      | Office Supplies | Art          |
| East   | 1,812.41      | Office Supplies | Envelopes    |
| East   | 1,129.28      | Office Supplies | Labels       |
| East   | 263.99        | Office Supplies | Fasteners    |
| East   | -1,155.14     | Office Supplies | Supplies     |
| East   | -1,167.63     | Furniture       | Bookcases    |
| Total  | 91,522.78     |                 |              |

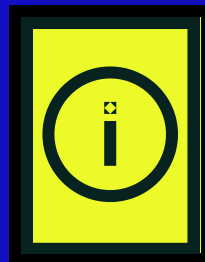


## Q8. Conditional formatting

Using Superstore Dataset, create a table visual to show the Subcategory Wise Sales Profit Quantity Discount and Apply Conditional Formatting based on the below condition:

- Sales: Apply background color with lowest in red and highest in green.
- Profit: Use arrow icons, red for profit < 0 and green for profit > 0
- Quantity: Apply data bars.
- Discount: Set font color to red for lowest and green for highest.

| Sub-Category | Sum of Sales | Sum of Profit | Sum of Quantity | Sum of Discount |
|--------------|--------------|---------------|-----------------|-----------------|
| Phones       | 330,007.05   | ↑ 44,515.73   | 3289            | 137.40          |
| Chairs       | 328,449.10   | ↑ 26,590.17   | 2356            | 105.00          |
| Storage      | 223,843.61   | ↑ 21,278.83   | 3158            | 63.20           |
| Tables       | 206,965.53   | ↓ -17,725.48  | 1241            | 83.35           |
| Binders      | 203,412.73   | ↑ 30,221.76   | 5974            | 567.00          |
| Machines     | 189,238.63   | ↑ 3,384.76    | 440             | 35.20           |
| Accessories  | 167,380.32   | ↑ 41,936.64   | 2976            | 60.80           |
| Copiers      | 149,528.03   | ↑ 55,617.82   | 234             | 11.00           |
| Bookcases    | 114,880.00   | ↓ -3,472.56   | 868             | 48.14           |
| Appliances   | 107,532.16   | ↑ 18,138.01   | 1729            | 77.60           |
| Furnishings  | 91,705.16    | ↑ 13,059.14   | 3563            | 132.40          |
| Paper        | 78,479.21    | ↑ 34,053.57   | 5178            | 102.60          |
| Supplies     | 46,673.54    | ↓ -1,189.10   | 647             | 14.60           |
| Art          | 27,118.79    | ↑ 6,527.79    | 3000            | 59.60           |
| Envelopes    | 16,476.40    | ↑ 6,964.18    | 906             | 20.40           |
| Labels       | 12,486.31    | ↑ 5,546.25    | 1400            | 25.00           |
| Fasteners    | 3,024.28     | ↑ 949.52      | 914             | 17.80           |
| Total        | 2,297,200.86 | 286,397.02    | 37873           | 1,561.09        |



# FINANCE DASHBOARD

Q.1

Q.2

Q.3

Q.4

Q.5

Q.6

Q.7

Q.7( REFION)

Q.8

Q.9

118.73M

Sum of Sales

101.83M

Sum of COGS

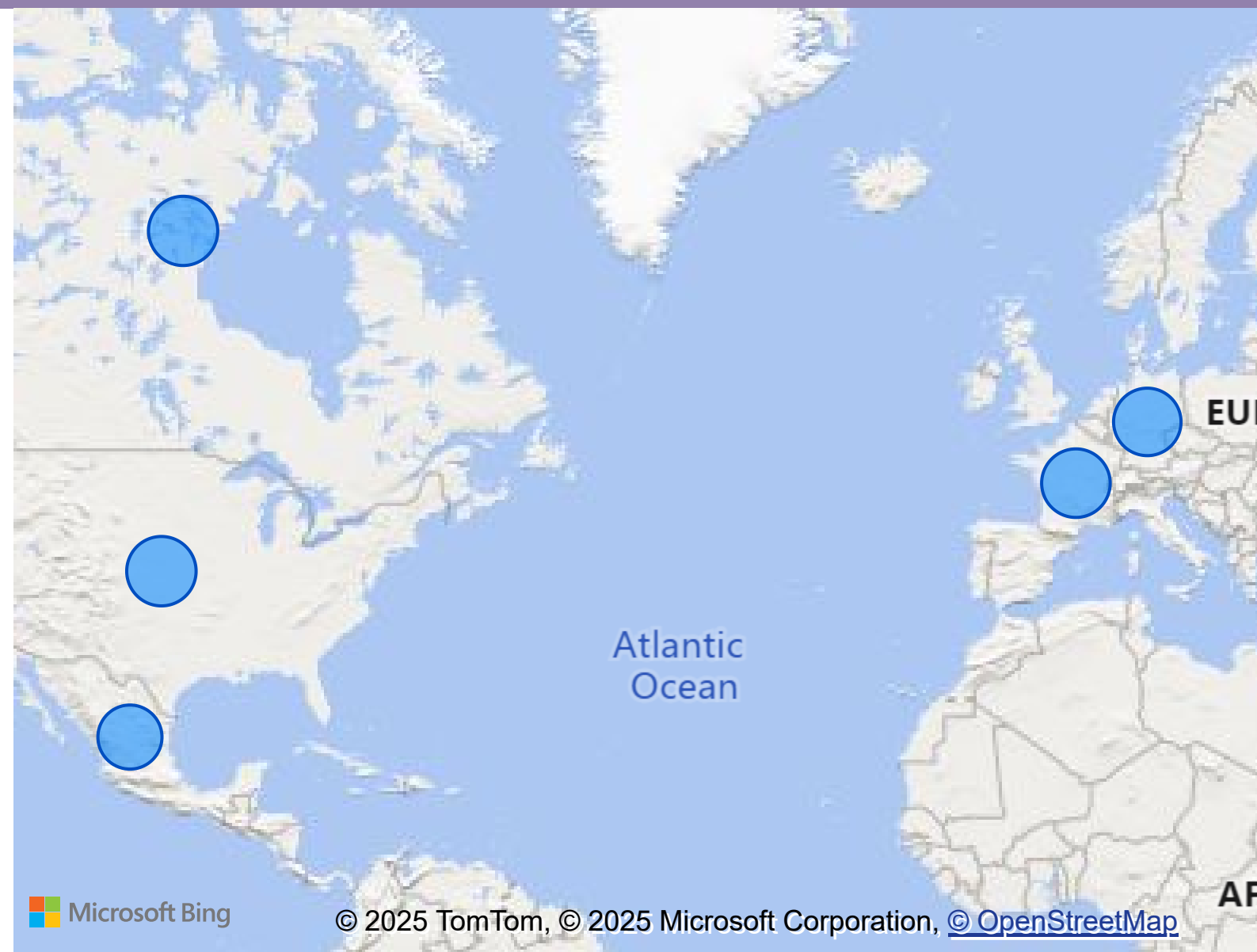
16.89M

Sum of Profit

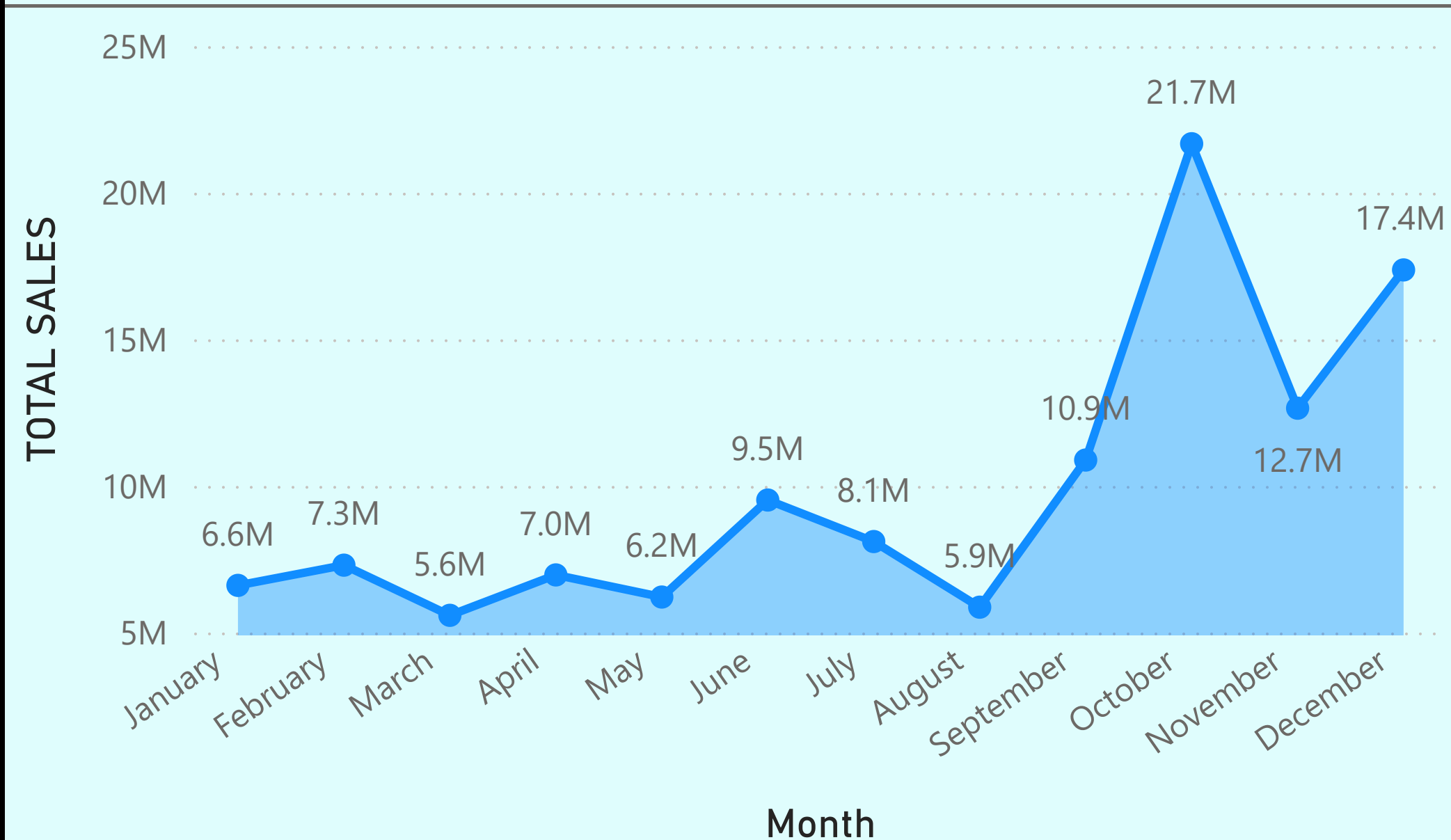
1.13M

Sum of Units Sold

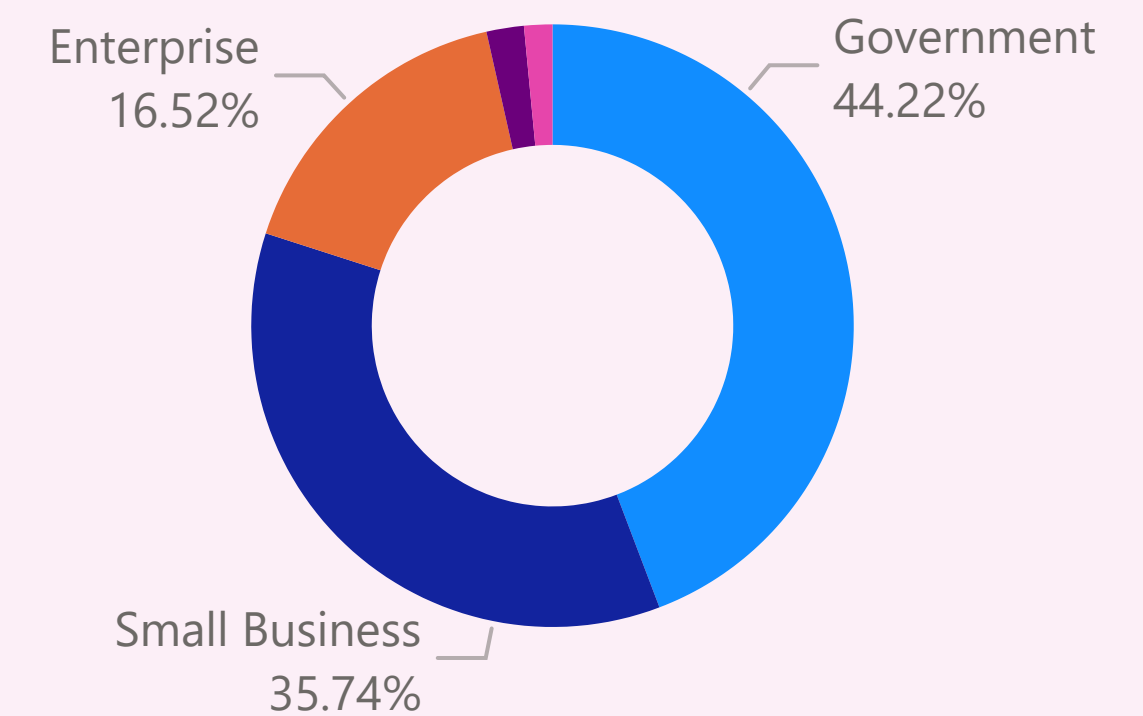
## SALES INFO BY WORLD MAP



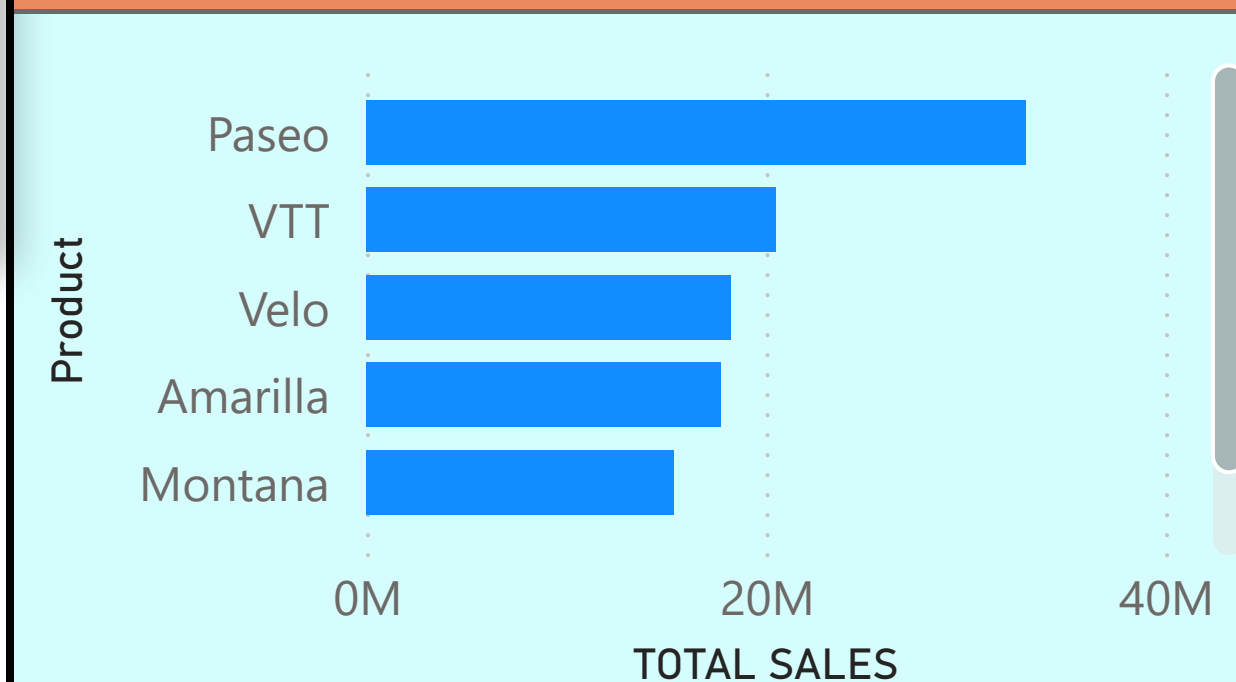
## TOTAL SALES by Month



## TOTAL SALES by Segment



## TOTAL SALES by Product



## Parameter

☐ TOTAL PROFIT

☐ TOTAL QUANTITY

☒ TOTAL SALES