POWER BI ASSIGNMENT 2

Calculated Columns & DAX used

● **Create a Calculated Column for 'Category Type':**

Category type = 'Order Details (1)'[Category] & " , " & 'Order Details (1)'[Sub-Category]

● **Calculate Revenue per Order in Order Details Table:**

Revenue = 'Order Details (1)'[Amount] * 'Order Details (1)'[Quantity]

● **Create a Calculated Column to Categorize Sales:**

Sales Category = if ('Order Details (1)'[Revenue] > AVERAGE ('Order Details (1)'[Revenue]),"Above Average", "Below Average")

Calculated Measures:

● **Calculate Order Count:**

Order Count = DISTINCTCOUNT('Order Details'[Order ID])

● **Calculate Average Profit in Delhi:**

Average Profit Delhi =CALCULATE(AVERAGE('Order Details (1)'[Profit]),'List of Orders (1)'[City] = "Delhi")

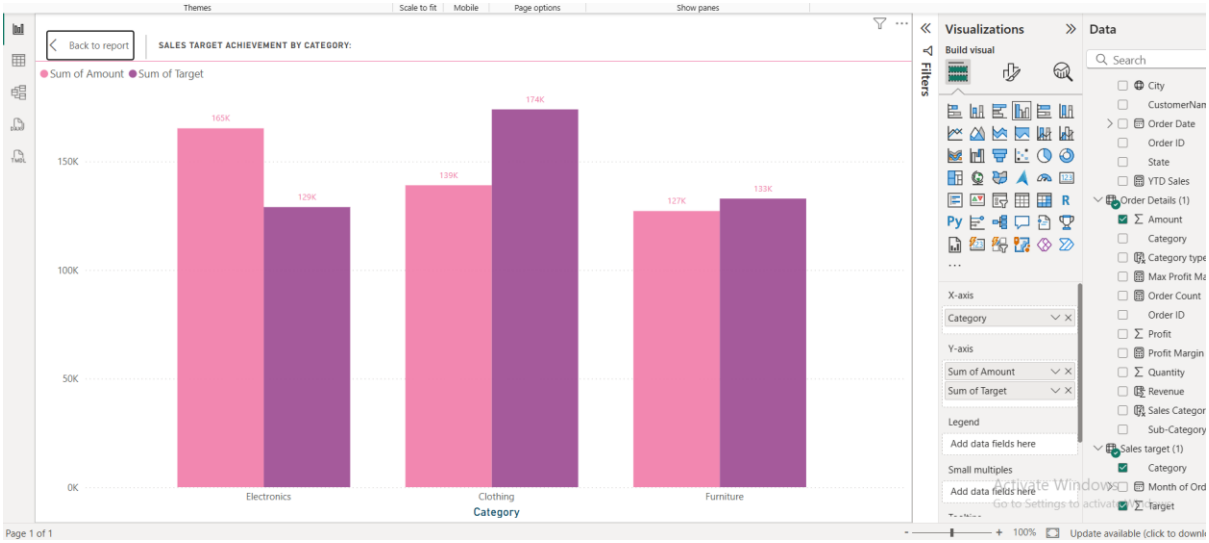
● **Calculate Year-to-Date (YTD) Sales:**

YTD Sales = TOTALYTD (SUM ('Order Details (1)'[Revenue]),'List of Orders (1)'[Order Date])

DATA VISUALIZATION

Sales Target Achievement by Category:

Created the bar chart



Max Profit Margin by Sub-Category:

Created Measures

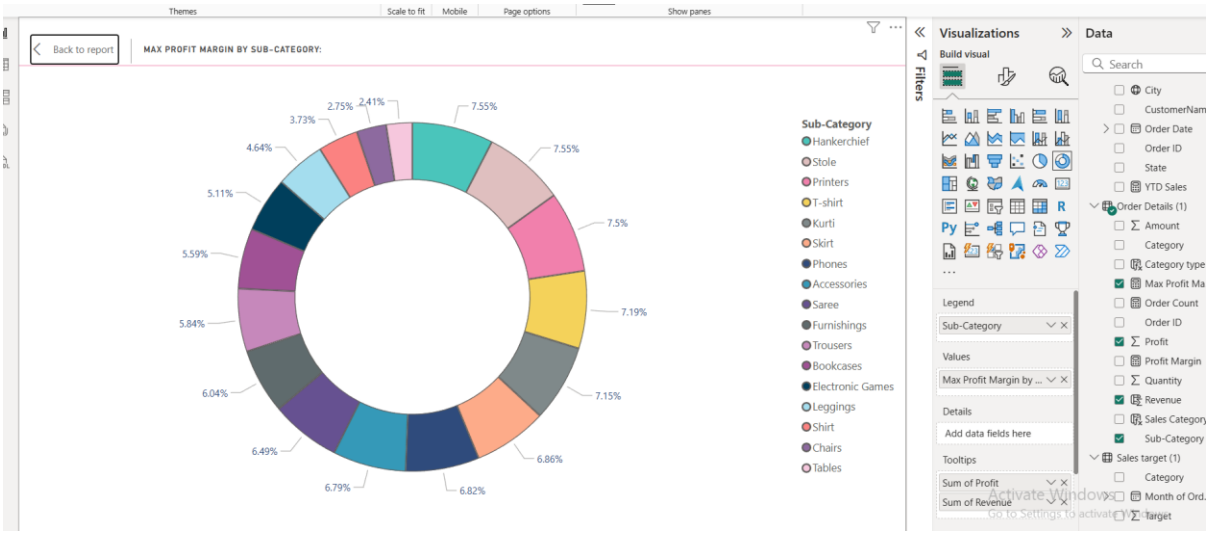
1)Profit Margin

Profit Margin = DIVIDE(SUM('Order Details'[Profit]), SUM('Order Details'[Revenue]))

2)Maximum Profit Margin

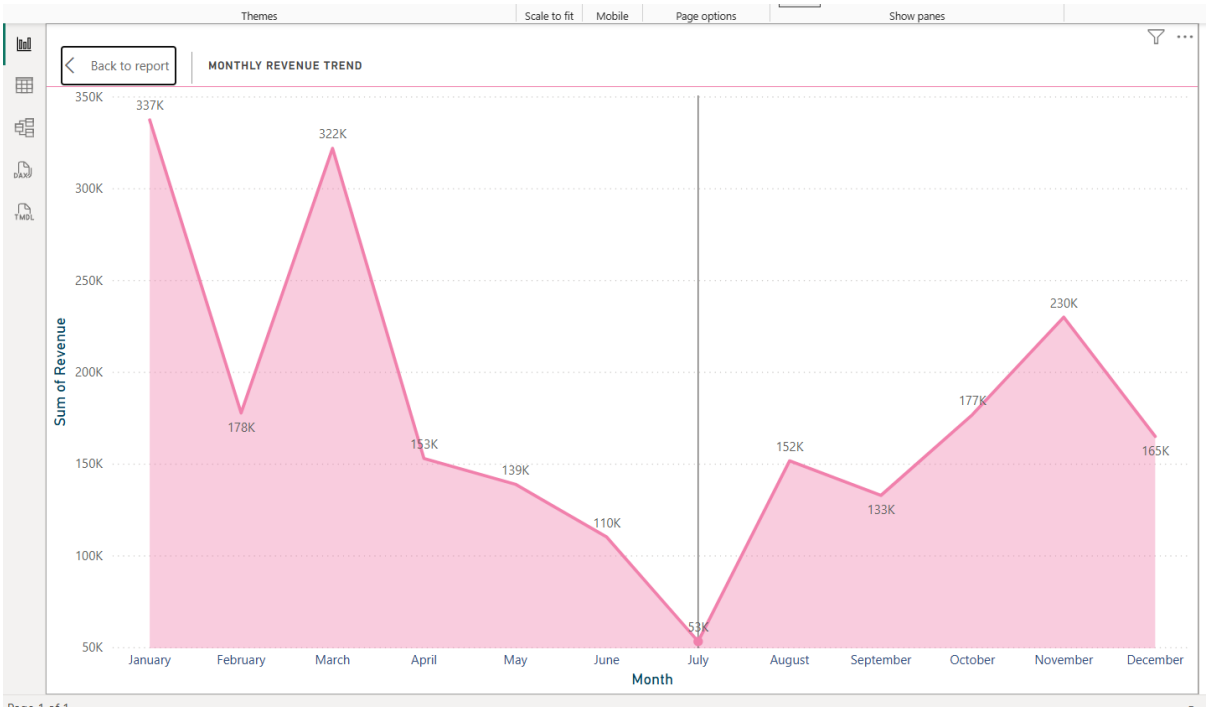
Max Profit Margin by Sub-Category = CALCULATE(MAXX('Order Details',DIVIDE('Order Details'[Profit], 'Order Details'[Revenue])),ALLEXCEPT('Order Details', 'Order Details'[Sub-Category]))

after this created Donut chart



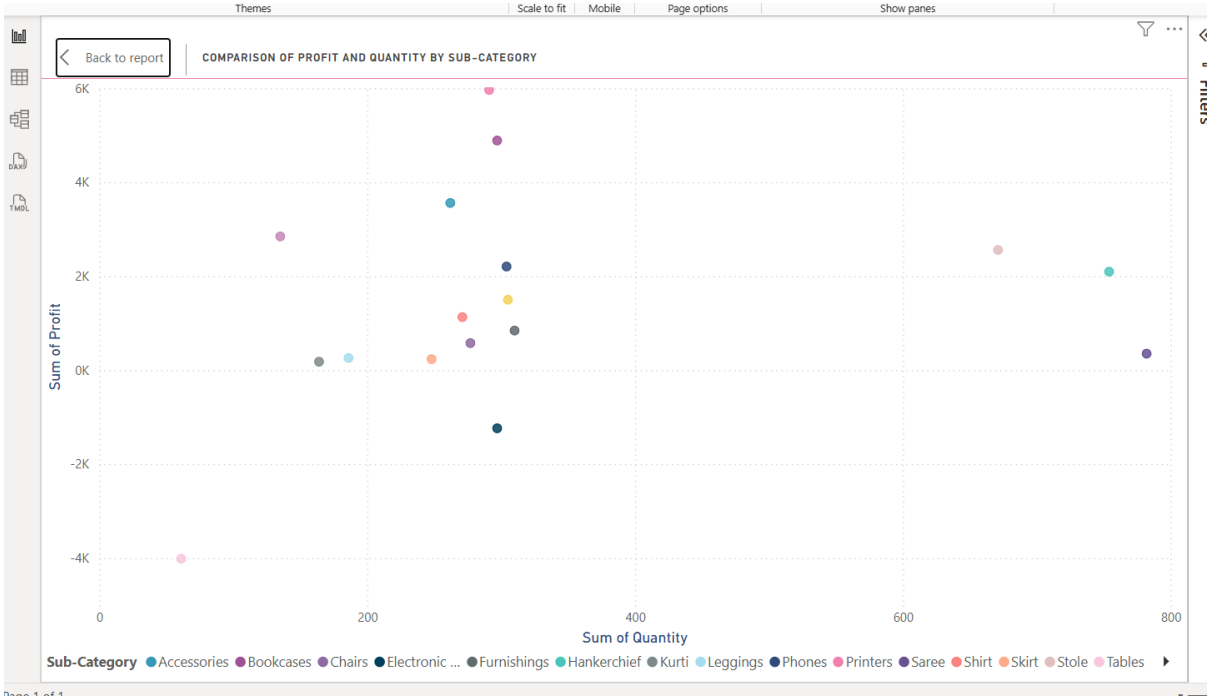
Monthly Sales Trend:

Created a monthly sales trend in line chart



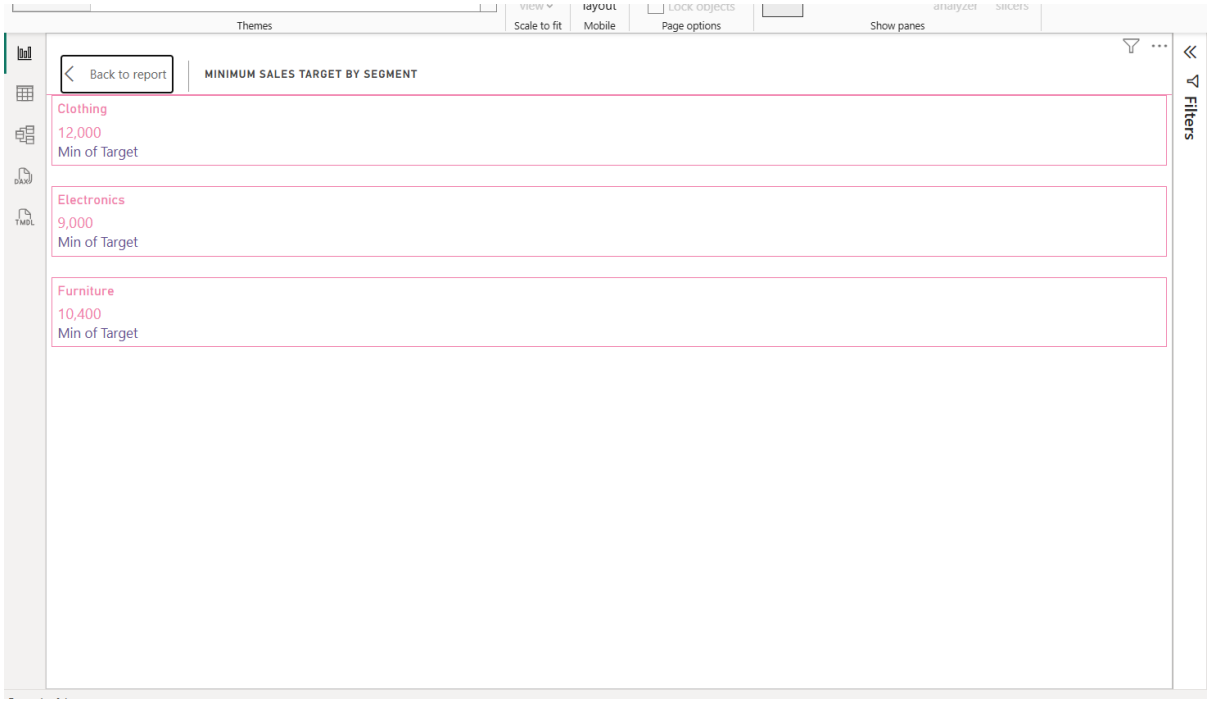
Comparison of Profit and Quantity by Sub-Category:

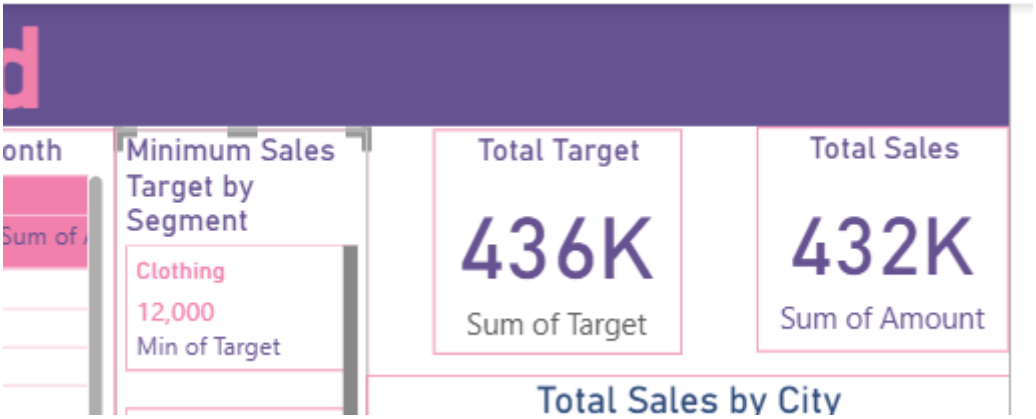
Created the scatter plot



Comparison of Total Sales Amount and Target:

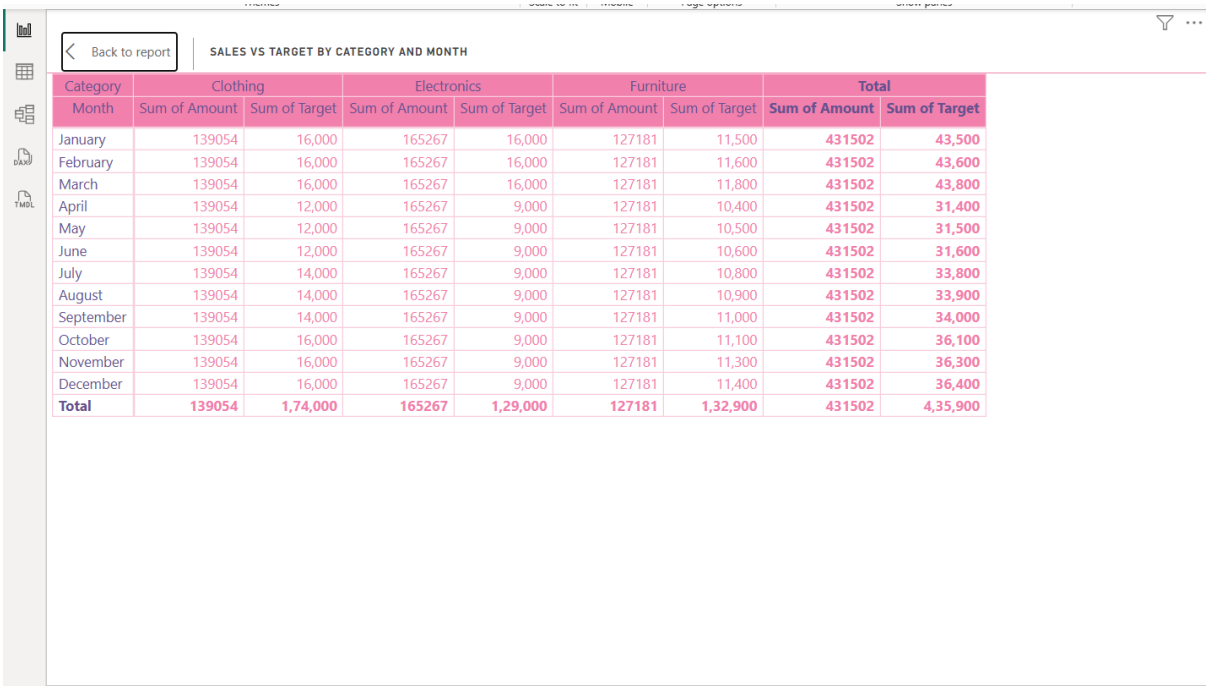
Created cards and multi card row





Sales Performance Matrix:

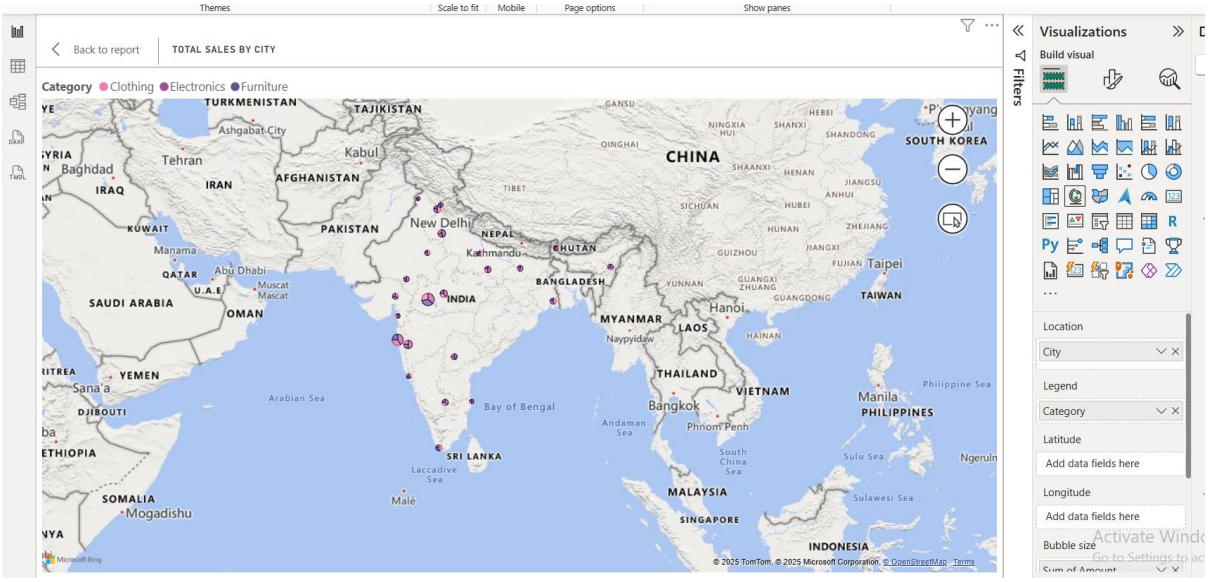
Built a matrix table chart



Category	Clothing		Electronics		Furniture		Total	
Month	Sum of Amount	Sum of Target	Sum of Amount	Sum of Target	Sum of Amount	Sum of Target	**Sum of Amount**	**Sum of Target**
January	139054	16,000	165267	16,000	127181	11,500	**431502**	**43,500**
February	139054	16,000	165267	16,000	127181	11,600	**431502**	**43,600**
March	139054	16,000	165267	16,000	127181	11,800	**431502**	**43,800**
April	139054	12,000	165267	9,000	127181	10,400	**431502**	**31,400**
May	139054	12,000	165267	9,000	127181	10,500	**431502**	**31,500**
June	139054	12,000	165267	9,000	127181	10,600	**431502**	**31,600**
July	139054	14,000	165267	9,000	127181	10,800	**431502**	**33,800**
August	139054	14,000	165267	9,000	127181	10,900	**431502**	**33,900**
September	139054	14,000	165267	9,000	127181	11,000	**431502**	**34,000**
October	139054	16,000	165267	9,000	127181	11,100	**431502**	**36,100**
November	139054	16,000	165267	9,000	127181	11,300	**431502**	**36,300**
December	139054	16,000	165267	9,000	127181	11,400	**431502**	**36,400**
Total	**139054**	**1,74,000**	**165267**	**1,29,000**	**127181**	**1,32,900**	431502	4,35,900

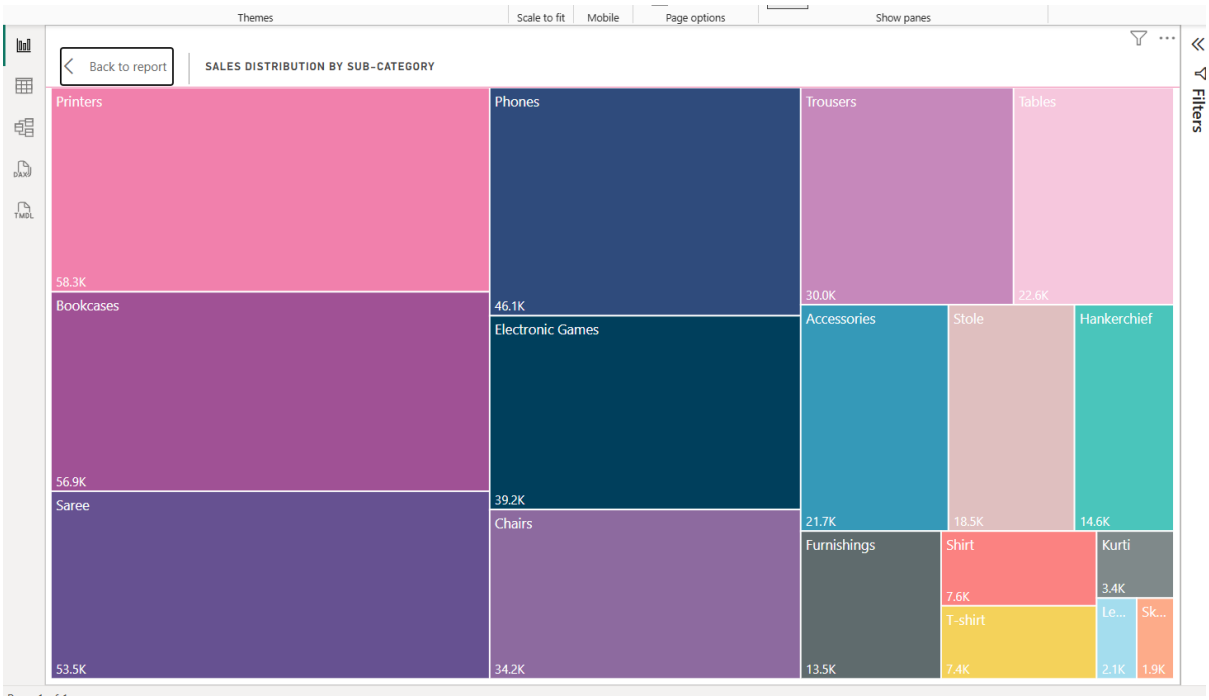
Geographic Sales Analysis:

Created Map Chart



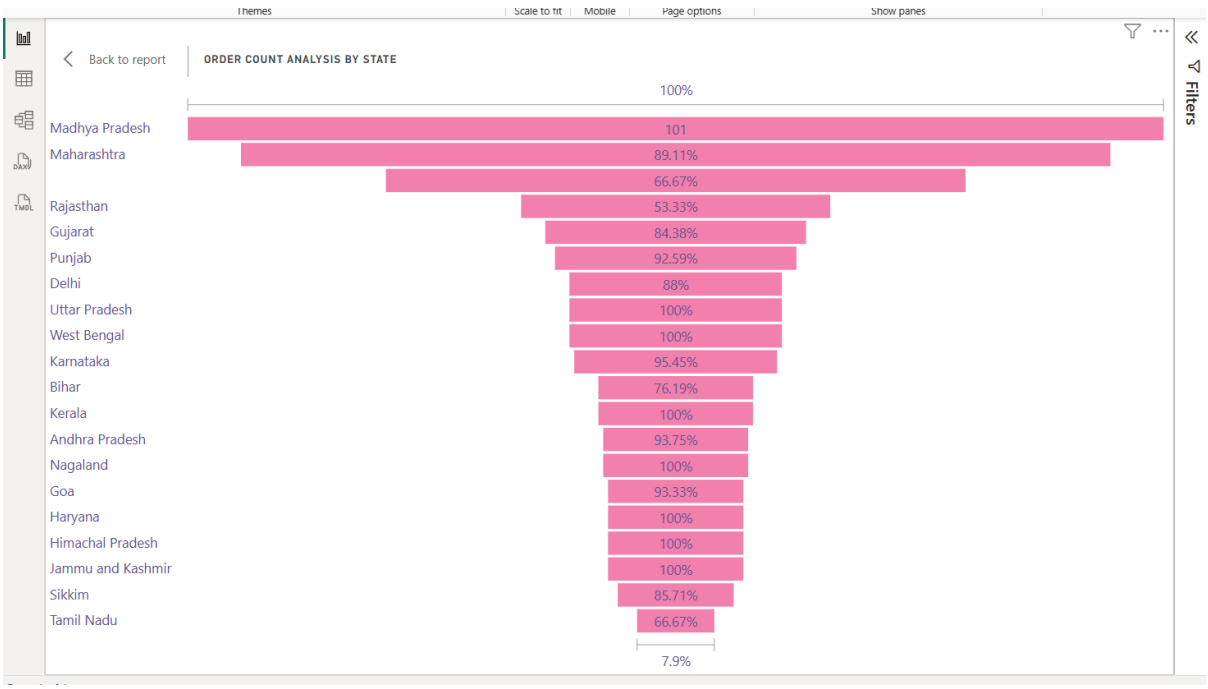
Sales Distribution by Sub-Category:

Created a treemap



Order Count Analysis by State:

Created the funnel chart



Data visualization (overall dashboard view)