

POWER BI-ASSIGNMENT-2

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1. Create a Calculated Column for 'Category Type': Add a calculated column in the Order Details table that combines the 'Category' and 'Sub-Category' columns into a single 'Category Type' column.

Category Type = CONCATENATE('Order Details'[Category],CONCATENATE(" - ','Order Details'[Sub-Category]'))

<div><div></div><div></div></div>		1 Category Type = CONCATENATE('Order Details'[Category],CONCATENATE(" - ",'Order Details'[Sub-Category]))						
Order ID	Amount	Profit	Quantity	Category	Sub-Category	Profit Margin	Profit Status	Category Type
B-25603	₹ 12	1	2	Clothing	Hankerchief	0.083333333	Profit	Clothing - Hankerchief
B-25608	₹ 257	23	5	Clothing	Hankerchief	0.089494163	Profit	Clothing - Hankerchief
B-25615	₹ 68	20	5	Clothing	Hankerchief	0.294117647	Profit	Clothing - Hankerchief
B-25616	₹ 42	12	5	Clothing	Hankerchief	0.285714286	Profit	Clothing - Hankerchief
B-25624	₹ 26	12	3	Clothing	Hankerchief	0.461538462	Profit	Clothing - Hankerchief
B-25625	₹ 97	29	2	Clothing	Hankerchief	0.298969072	Profit	Clothing - Hankerchief
B-25635	₹ 40	16	3	Clothing	Hankerchief	0.4	Profit	Clothing - Hankerchief
B-25638	₹ 154	39	3	Clothing	Hankerchief	0.253246753	Profit	Clothing - Hankerchief
B-25654	₹ 34	12	3	Clothing	Hankerchief	0.352941176	Profit	Clothing - Hankerchief
B-25656	₹ 6	3	1	Clothing	Hankerchief	0.5	Profit	Clothing - Hankerchief
B-25656	₹ 56	18	2	Clothing	Hankerchief	0.321428571	Profit	Clothing - Hankerchief
B-25670	₹ 24	1	2	Clothing	Hankerchief	0.041666667	Profit	Clothing - Hankerchief
B-25670	₹ 14	2	1	Clothing	Hankerchief	0.142857143	Profit	Clothing - Hankerchief
B-25730	₹ 18	8	2	Clothing	Hankerchief	0.444444444	Profit	Clothing - Hankerchief
B-25751	₹ 32	7	3	Clothing	Hankerchief	0.21875	Profit	Clothing - Hankerchief
B-25757	₹ 106	15	7	Clothing	Hankerchief	0.141509434	Profit	Clothing - Hankerchief
B-25757	₹ 14	5	1	Clothing	Hankerchief	0.357142857	Profit	Clothing - Hankerchief
B-25757	₹ 17	7	3	Clothing	Hankerchief	0.411764706	Profit	Clothing - Hankerchief
B-25771	₹ 148	59	3	Clothing	Hankerchief	0.398648649	Profit	Clothing - Hankerchief
B-25782	₹ 26	2	2	Clothing	Hankerchief	0.076923077	Profit	Clothing - Hankerchief

2. Calculate Revenue per Order in Order Details Table: Create a calculated column in the Order Details table to compute the revenue (Amount * Quantity) per order.

$$\text{Revenue} = \text{'Order Details'}. \text{Amount} * \text{'Order Details'}. \text{Quantity}$$

Order ID	Amount	Profit	Quantity	Category	Sub-Category	Category Type	Revenue
B-25602	561	212	3	Clothing	Saree	Clothing - Saree	1683
B-25602	119	-5	8	Clothing	Saree	Clothing - Saree	952
B-25603	193	-166	3	Clothing	Saree	Clothing - Saree	579
B-25604	157	5	9	Clothing	Saree	Clothing - Saree	1413
B-25605	75	0	7	Clothing	Saree	Clothing - Saree	525
B-25609	25	-5	4	Clothing	Saree	Clothing - Saree	100
B-25610	43	0	3	Clothing	Saree	Clothing - Saree	129
B-25611	160	-59	2	Clothing	Saree	Clothing - Saree	320
B-25613	1603	0	9	Clothing	Saree	Clothing - Saree	14427
B-25619	353	90	8	Clothing	Saree	Clothing - Saree	2824
B-25622	534	0	3	Clothing	Saree	Clothing - Saree	1602
B-25623	149	-87	4	Clothing	Saree	Clothing - Saree	596
B-25625	635	-349	5	Clothing	Saree	Clothing - Saree	3175
B-25628	24	-9	4	Clothing	Saree	Clothing - Saree	96
B-25633	711	-8	4	Clothing	Saree	Clothing - Saree	2844
B-25635	382	30	3	Clothing	Saree	Clothing - Saree	1146
B-25636	637	113	5	Clothing	Saree	Clothing - Saree	3185
B-25646	133	-17	4	Clothing	Saree	Clothing - Saree	103

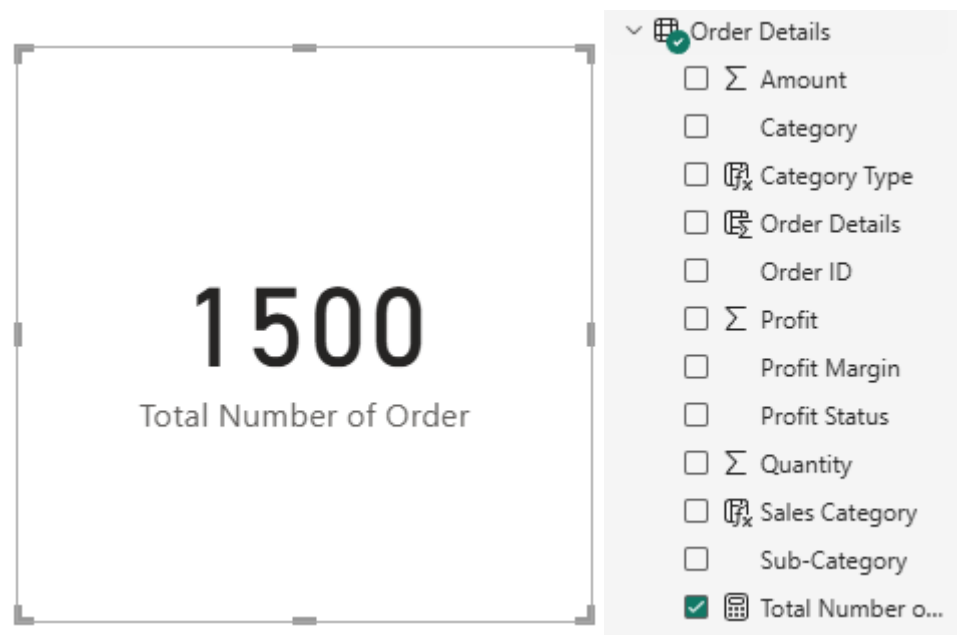
3.Create a Calculated Column to Categorize Sales: Add a calculated column named 'Sales Category' in the Order Details table that categorizes each order as 'Above Average' or 'Below Average' based on the Amount value.

Sales Category = IF('Order Details'[Amount]>=AVERAGE('Order Details'[Amount]),"Above Average","Below Average")

Order ID	Amount	Profit	Quantity	Category	Sub-Category	Category Type	Revenue	Sales Category
B-25602	561	212	3	Clothing	Saree	Clothing - Saree	1683	Above Average
B-25602	119	-5	8	Clothing	Saree	Clothing - Saree	952	Below Average
B-25603	193	-166	3	Clothing	Saree	Clothing - Saree	579	Below Average
B-25604	157	5	9	Clothing	Saree	Clothing - Saree	1413	Below Average
B-25605	75	0	7	Clothing	Saree	Clothing - Saree	525	Below Average
B-25609	25	-5	4	Clothing	Saree	Clothing - Saree	100	Below Average
B-25610	43	0	3	Clothing	Saree	Clothing - Saree	129	Below Average
B-25611	160	-59	2	Clothing	Saree	Clothing - Saree	320	Below Average
B-25613	1603	0	9	Clothing	Saree	Clothing - Saree	14427	Above Average
B-25619	353	90	8	Clothing	Saree	Clothing - Saree	2824	Above Average
B-25622	534	0	3	Clothing	Saree	Clothing - Saree	1602	Above Average
B-25623	149	-87	4	Clothing	Saree	Clothing - Saree	596	Below Average
B-25625	635	-349	5	Clothing	Saree	Clothing - Saree	3175	Above Average
B-25628	24	-9	4	Clothing	Saree	Clothing - Saree	96	Below Average
B-25633	711	-8	4	Clothing	Saree	Clothing - Saree	2844	Above Average
B-25635	382	30	3	Clothing	Saree	Clothing - Saree	1146	Above Average
B-25636	637	113	5	Clothing	Saree	Clothing - Saree	3185	Above Average
B-25640	122	-47	4	Clothing	Saree	Clothing - Saree	488	Below Average
B-25646	20	-8	2	Clothing	Saree	Clothing - Saree	40	Below Average
B-25647	42	-6	4	Clothing	Saree	Clothing - Saree	168	Below Average
B-25648	55	-26	4	Clothing	Saree	Clothing - Saree	220	Below Average
B-25648	130	-41	4	Clothing	Saree	Clothing - Saree	520	Below Average

4.Calculate Order Count: Define a measure to count the total number of orders in the Order Details table.

Total Number of Order = COUNTROWS('Order Details')



5.Calculate Average Profit in Delhi: Create a measure to calculate the average profit for orders placed in Delhi.

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

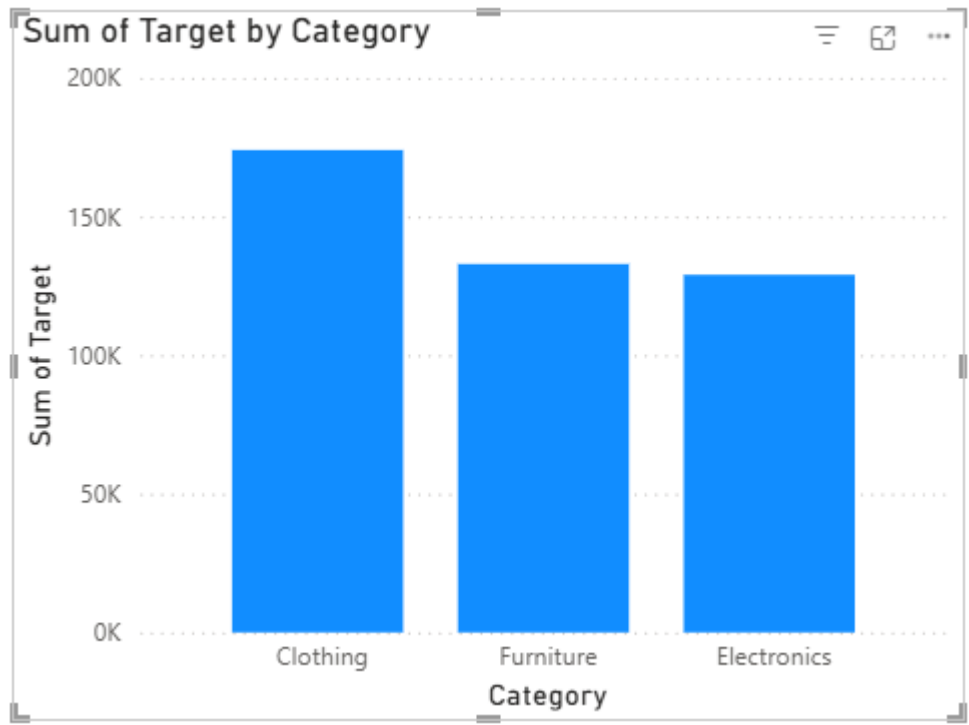


6.Calculate Year-to-Date (YTD) Sales: Define a measure to calculate the total sales amount accumulated from the earliest order date up to each order date.

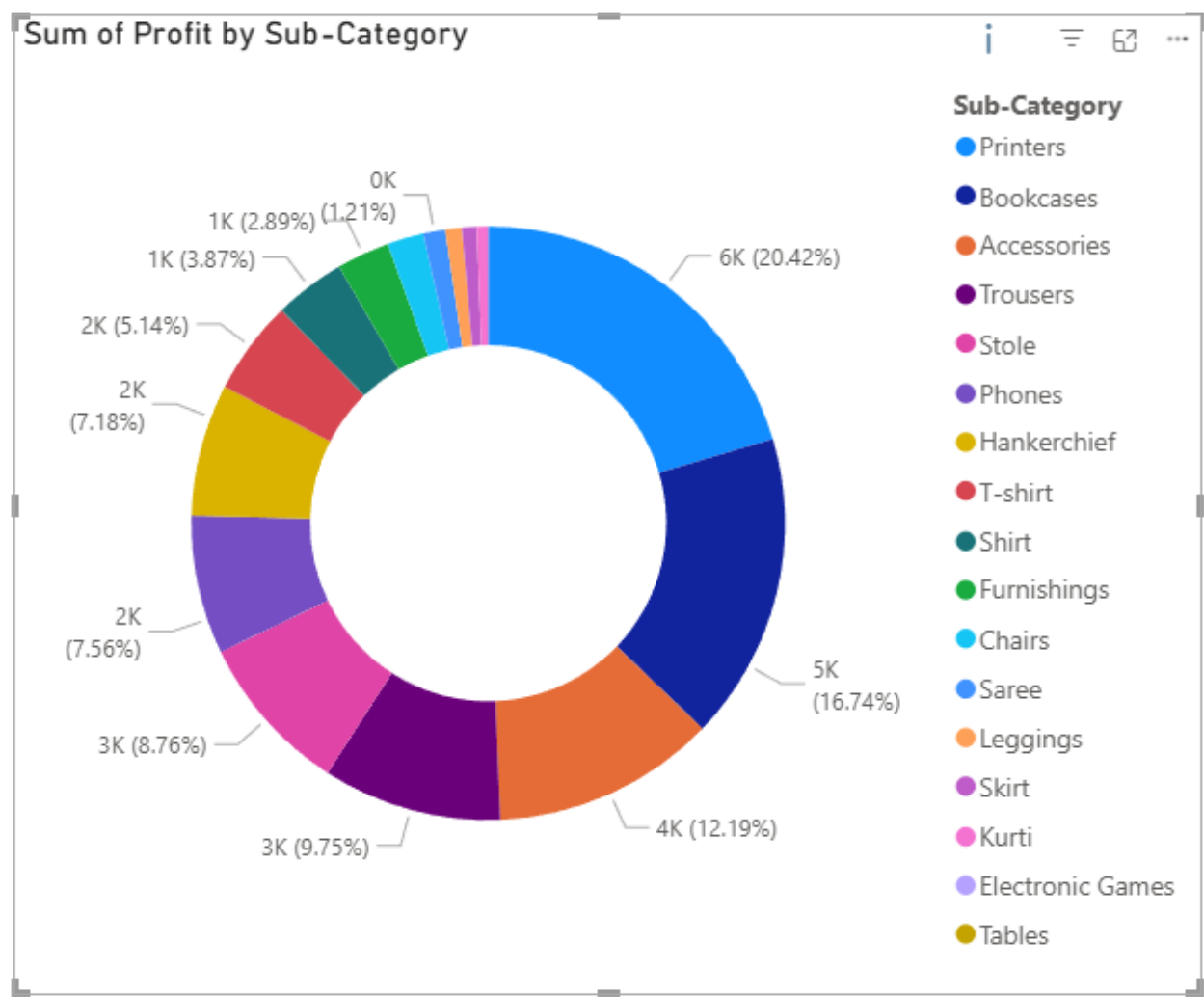
Total YTD = TOTALYTD(SUM('Order Details'[Amount]),'Sales target'[Month of Order Date].[Date])



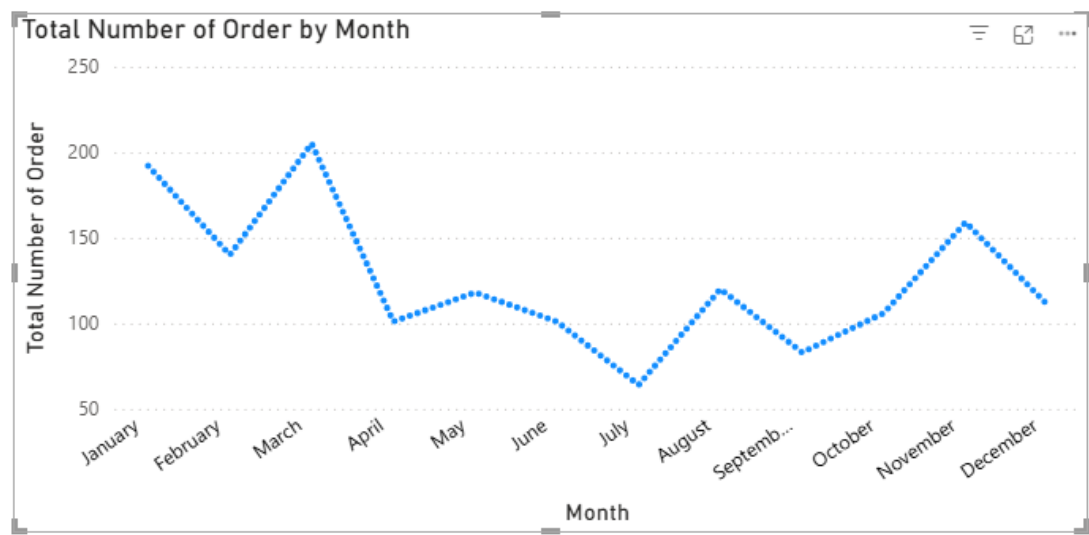
7.Sales Target Achievement by Category: Compare actual sales with sales targets by category using a clustered column chart.



8.Max Profit Margin by Sub-Category: Analyze the maximum profit margin for each sub-category of products using a donut chart.



9.Monthly Sales Trend: Show the trend of monthly sales over time using a line chart.



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Y-Axis Constant Line

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Min line

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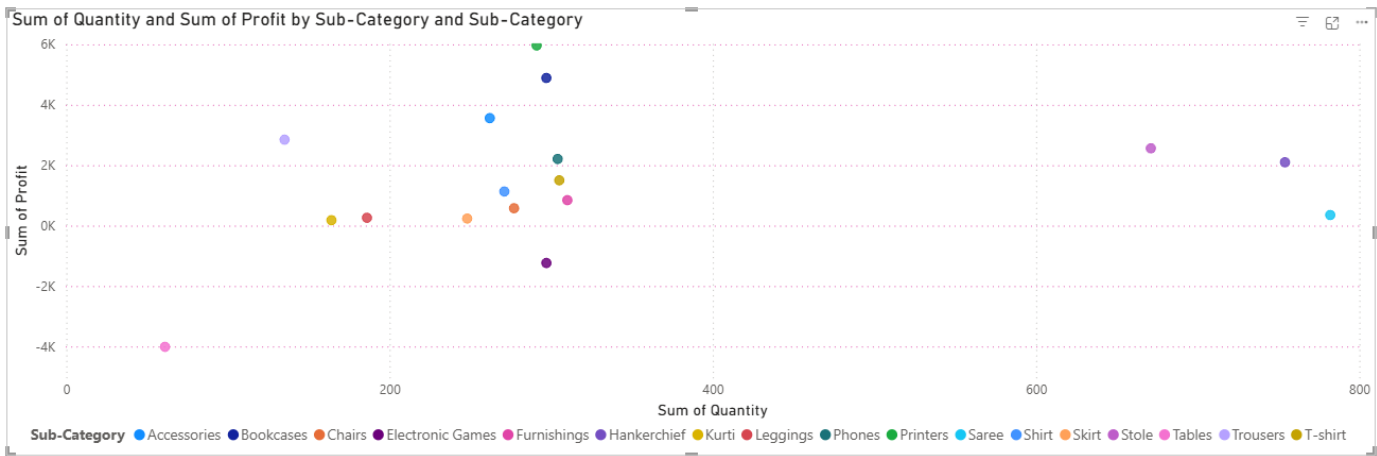
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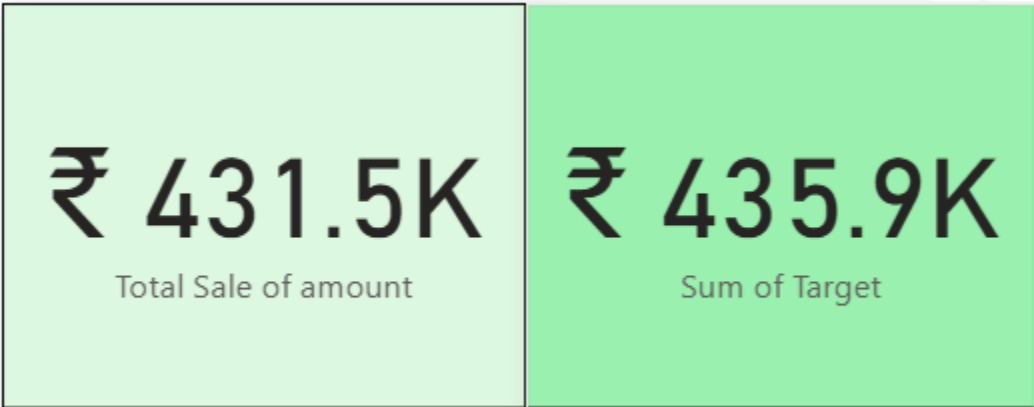
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10.Comparison of Profit and Quantity by Sub-Category: Compare the relationship between profit and quantity sold for different sub-categories using a scatter chart.



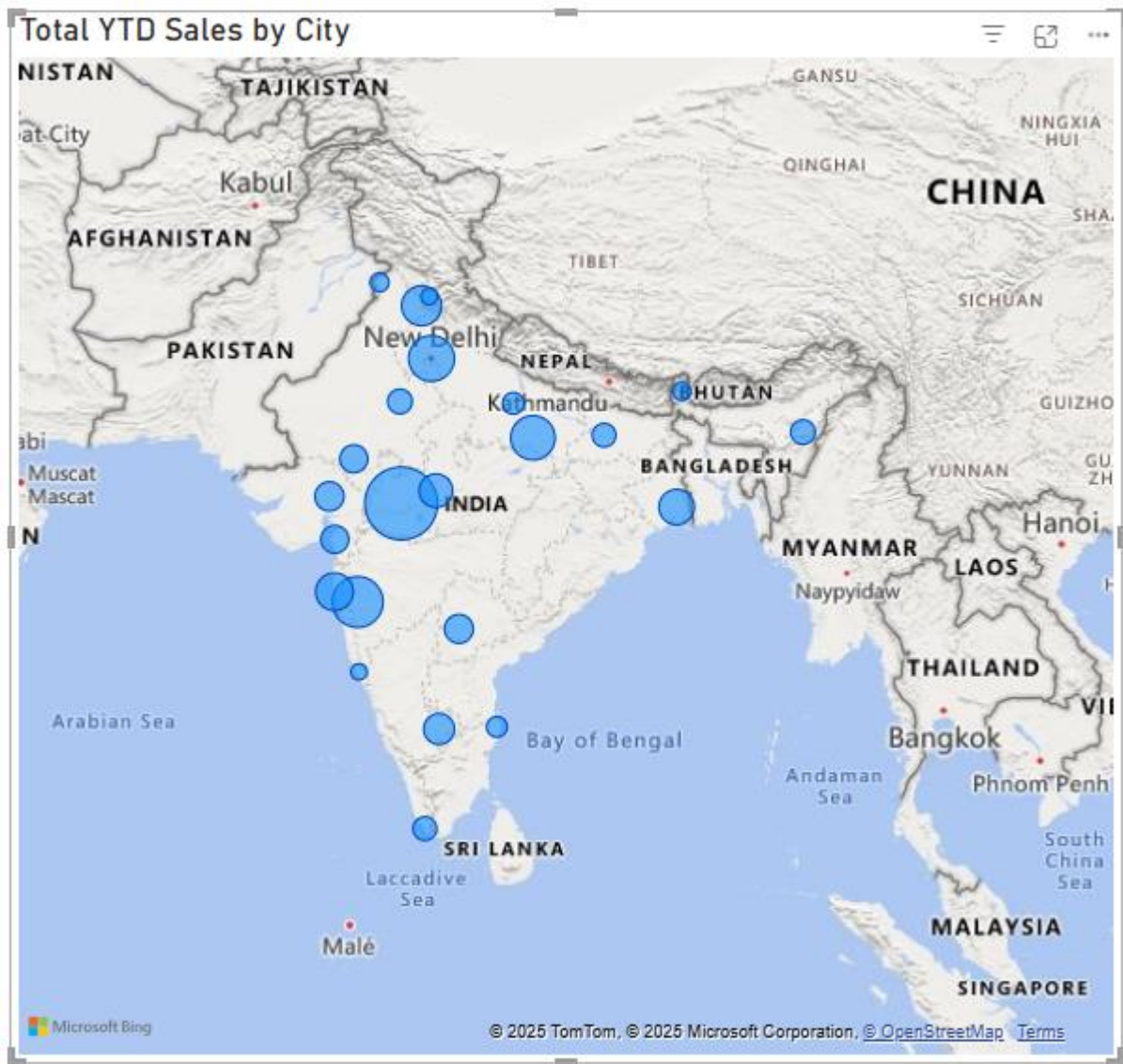
11. Comparison of Total Sales Amount and Target: Create cards to succinctly display the total sales amount alongside the sales target for quick comparison and analysis. Also, create a multi-row card to display the minimum target for each segment.



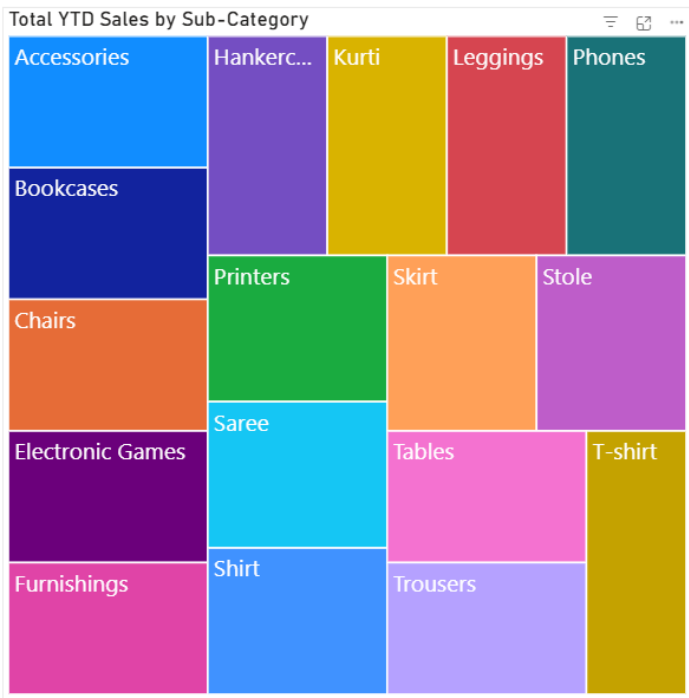
12.Sales Performance Matrix: Build a matrix view to analyze how actual sales compare to sales targets across different categories and months.

Month	Above Average	Below Average	Total
January	43500	43500	43500
February	43600	43600	43600
March	43800	43800	43800
April	31400	31400	31400
May	31500	31500	31500
June	31600	31600	31600
July	33800	33800	33800
August	33900	33900	33900
September	34000	34000	34000
October	36100	36100	36100
November	36300	36300	36300
December	36400	36400	36400
Total	435900	435900	435900

13.Geographic Sales Analysis: Visualize total sales on a map by city to identify regional sales patterns.



14.Sales Distribution by Sub-Category: Represent the sales distribution across different sub-categories using a treemap.



15. Order Count Analysis by State: Create a funnel chart to visualize the distribution of order counts across different states.

