

# Power BI Assignment 2 – DAX & Data Visualization

## Calculate column:

Created a Calculated Column called Category Type using category and sub-category.

1 Category type = 'Order Details (1)'[Category] & "-" & 'Order Details (1)'[Sub-Category]								
Order ID	Amount	Profit	Quantity	Category	Sub-Category	Profit margin	Profit status	Category type
B-25603	\$12	\$1	2	Clothing	Hankerchief	\$0.0833	Profit	Clothing-Hankerchief
B-25608	\$257	\$23	5	Clothing	Hankerchief	\$0.0895	Profit	Clothing-Hankerchief
B-25615	\$68	\$20	5	Clothing	Hankerchief	\$0.2941	Profit	Clothing-Hankerchief
B-25616	\$42	\$12	5	Clothing	Hankerchief	\$0.2857	Profit	Clothing-Hankerchief
B-25624	\$26	\$12	3	Clothing	Hankerchief	\$0.4615	Profit	Clothing-Hankerchief
B-25625	\$97	\$29	2	Clothing	Hankerchief	\$0.299	Profit	Clothing-Hankerchief
B-25635	\$40	\$16	3	Clothing	Hankerchief	\$0.4	Profit	Clothing-Hankerchief
B-25638	\$154	\$39	3	Clothing	Hankerchief	\$0.2532	Profit	Clothing-Hankerchief
B-25654	\$34	\$12	3	Clothing	Hankerchief	\$0.3529	Profit	Clothing-Hankerchief
B-25656	\$6	\$3	1	Clothing	Hankerchief	\$0.5	Profit	Clothing-Hankerchief
B-25656	\$56	\$18	2	Clothing	Hankerchief	\$0.3214	Profit	Clothing-Hankerchief
B-25670	\$24	\$1	2	Clothing	Hankerchief	\$0.0417	Profit	Clothing-Hankerchief
B-25670	\$14	\$2	1	Clothing	Hankerchief	\$0.1429	Profit	Clothing-Hankerchief
B-25730	\$18	\$8	2	Clothing	Hankerchief	\$0.4444	Profit	Clothing-Hankerchief
B-25751	\$32	\$7	3	Clothing	Hankerchief	\$0.2188	Profit	Clothing-Hankerchief
B-25757	\$106	\$15	7	Clothing	Hankerchief	\$0.1415	Profit	Clothing-Hankerchief
B-25757	\$14	\$5	1	Clothing	Hankerchief	\$0.3571	Profit	Clothing-Hankerchief
B-25757	\$17	\$7	3	Clothing	Hankerchief	\$0.4118	Profit	Clothing-Hankerchief
B-25771	\$148	\$59	3	Clothing	Hankerchief	\$0.3986	Profit	Clothing-Hankerchief
B-25783	\$26	\$2	2	Clothing	Hankerchief	\$0.0769	Profit	Clothing-Hankerchief
B-25784	\$15	\$4	1	Clothing	Hankerchief	\$0.2667	Profit	Clothing-Hankerchief

Formula used:

Category Type = 'Order Details'[Category] & "-" & 'Order Details'[Sub-Category]

## Revenue per Order in Order Details :

Created a calculated column Revenue per order by using Amount \* Quantity.

Order ID	Amount	Profit	Quantity	Category	Sub-Category	Profit margin	Profit status	Category type	Revenue per order
B-25603	\$12	\$1	2	Clothing	Hankerchief	\$0.0833	Profit	Clothing-Hankerchief	\$24
B-25608	\$257	\$23	5	Clothing	Hankerchief	\$0.0895	Profit	Clothing-Hankerchief	\$1,285
B-25615	\$68	\$20	5	Clothing	Hankerchief	\$0.2941	Profit	Clothing-Hankerchief	\$340
B-25616	\$42	\$12	5	Clothing	Hankerchief	\$0.2857	Profit	Clothing-Hankerchief	\$210
B-25624	\$26	\$12	3	Clothing	Hankerchief	\$0.4615	Profit	Clothing-Hankerchief	\$78
B-25625	\$97	\$29	2	Clothing	Hankerchief	\$0.299	Profit	Clothing-Hankerchief	\$194
B-25635	\$40	\$16	3	Clothing	Hankerchief	\$0.4	Profit	Clothing-Hankerchief	\$120
B-25638	\$154	\$39	3	Clothing	Hankerchief	\$0.2532	Profit	Clothing-Hankerchief	\$462
B-25654	\$34	\$12	3	Clothing	Hankerchief	\$0.3529	Profit	Clothing-Hankerchief	\$102
B-25656	\$6	\$3	1	Clothing	Hankerchief	\$0.5	Profit	Clothing-Hankerchief	\$6
B-25656	\$56	\$18	2	Clothing	Hankerchief	\$0.3214	Profit	Clothing-Hankerchief	\$112
B-25670	\$24	\$1	2	Clothing	Hankerchief	\$0.0417	Profit	Clothing-Hankerchief	\$48
B-25670	\$14	\$2	1	Clothing	Hankerchief	\$0.1429	Profit	Clothing-Hankerchief	\$14
B-25730	\$18	\$8	2	Clothing	Hankerchief	\$0.4444	Profit	Clothing-Hankerchief	\$36
B-25751	\$32	\$7	3	Clothing	Hankerchief	\$0.2188	Profit	Clothing-Hankerchief	\$96
B-25757	\$106	\$15	7	Clothing	Hankerchief	\$0.1415	Profit	Clothing-Hankerchief	\$742
B-25757	\$14	\$5	1	Clothing	Hankerchief	\$0.3571	Profit	Clothing-Hankerchief	\$14
B-25757	\$17	\$7	3	Clothing	Hankerchief	\$0.4118	Profit	Clothing-Hankerchief	\$51
B-25771	\$148	\$59	3	Clothing	Hankerchief	\$0.3986	Profit	Clothing-Hankerchief	\$444
B-25783	\$26	\$2	2	Clothing	Hankerchief	\$0.0769	Profit	Clothing-Hankerchief	\$52
B-25784	\$15	\$4	1	Clothing	Hankerchief	\$0.2667	Profit	Clothing-Hankerchief	\$15

## Formula used:

Revenue per Order = 'Order Details'[Amount] \* 'Order Details'[Quantity]

## Sales category:

Create a Calculated Column called Sales category using average amount as “Above average” and “Below Average”.

Name	Sales Category	\$% Format	Text	Σ Summarization	Don't summarize	Sort by column	Sort	Data groups	Groups	Manage relationships	Relationships	New column	Calculations
Data type	Text	\$ % ∞ ∅	Auto	Data category	Uncategorized	Sort by column	Sort	Data groups	Groups	Manage relationships	Relationships	New column	Calculations

Amount	Profit	Quantity	Category	Sub-Category	Profit margin	Profit status	Category type	Revenue per order	Sales Category
\$12	\$1	2	Clothing	Hankerchief	\$0.0833	Profit	Clothing-Hankerchief	\$24	Below average
\$257	\$23	5	Clothing	Hankerchief	\$0.0895	Profit	Clothing-Hankerchief	\$1,285	Below average
\$68	\$20	5	Clothing	Hankerchief	\$0.2941	Profit	Clothing-Hankerchief	\$340	Below average
\$42	\$12	5	Clothing	Hankerchief	\$0.2857	Profit	Clothing-Hankerchief	\$210	Below average
\$26	\$12	3	Clothing	Hankerchief	\$0.4615	Profit	Clothing-Hankerchief	\$78	Below average
\$97	\$29	2	Clothing	Hankerchief	\$0.299	Profit	Clothing-Hankerchief	\$194	Below average
\$40	\$16	3	Clothing	Hankerchief	\$0.4	Profit	Clothing-Hankerchief	\$120	Below average
\$154	\$39	3	Clothing	Hankerchief	\$0.2532	Profit	Clothing-Hankerchief	\$462	Below average
\$34	\$12	3	Clothing	Hankerchief	\$0.3529	Profit	Clothing-Hankerchief	\$102	Below average
\$6	\$3	1	Clothing	Hankerchief	\$0.5	Profit	Clothing-Hankerchief	\$6	Below average
\$56	\$18	2	Clothing	Hankerchief	\$0.3214	Profit	Clothing-Hankerchief	\$112	Below average
\$24	\$1	2	Clothing	Hankerchief	\$0.0417	Profit	Clothing-Hankerchief	\$48	Below average
\$14	\$2	1	Clothing	Hankerchief	\$0.1429	Profit	Clothing-Hankerchief	\$14	Below average
\$18	\$8	2	Clothing	Hankerchief	\$0.4444	Profit	Clothing-Hankerchief	\$36	Below average
\$32	\$7	3	Clothing	Hankerchief	\$0.2188	Profit	Clothing-Hankerchief	\$96	Below average
\$106	\$15	7	Clothing	Hankerchief	\$0.1415	Profit	Clothing-Hankerchief	\$742	Below average
\$14	\$5	1	Clothing	Hankerchief	\$0.3571	Profit	Clothing-Hankerchief	\$14	Below average
\$17	\$7	3	Clothing	Hankerchief	\$0.4118	Profit	Clothing-Hankerchief	\$51	Below average
\$148	\$59	3	Clothing	Hankerchief	\$0.3986	Profit	Clothing-Hankerchief	\$444	Below average

## Formula used:

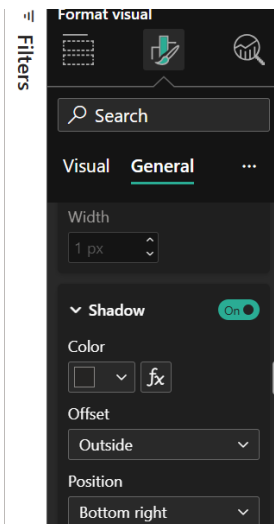
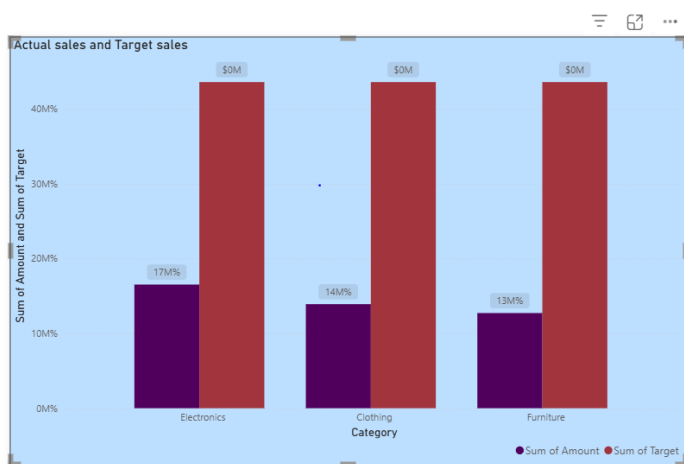
Sales Category = if ('Order Details (1)'[Amount] > CALCULATE (AVERAGE ('Order Details (1)'[Amount])), "Above Average", "Below average")

## Calculated Measures:

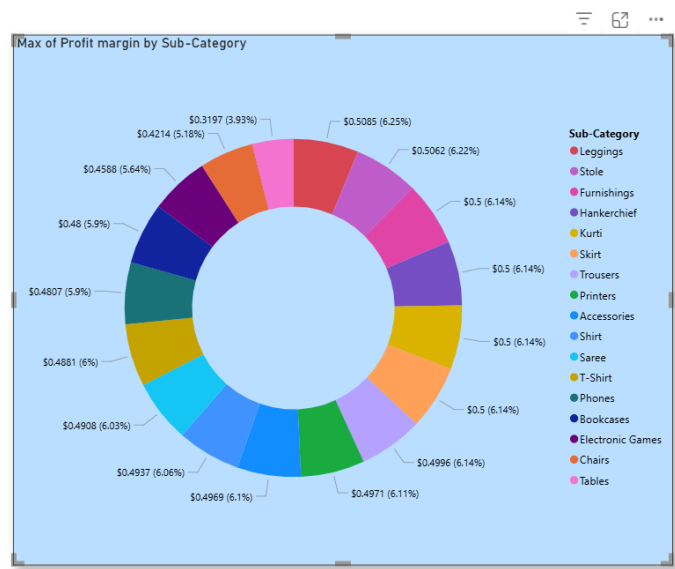
- Order Count = COUNTROWS ('Order Details')
- Average Profit (Delhi) =CALCULATE (AVERAGE ('Order Details'[Profit]), 'Order Details'[City] = "Delhi")
- YTD = TOTALYTD (SUM('Order Details (1)'[Amount]),'List of Orders (3)'[Order Date]. [Date])

## DATA VISUALIZATION:

### Sales Target Achievement by Category:



# Max Profit Margin by Sub-Category:



Visualizations

Format visual

Visual General

Properties

Title On

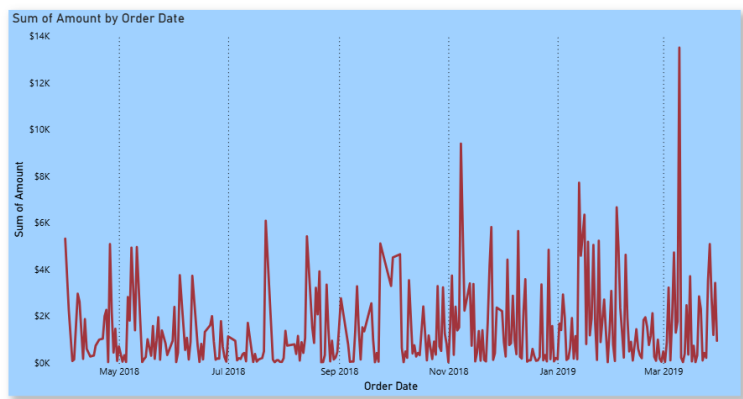
Effects

Background On

Color

Transparency

# Monthly Sales Trend:



Build visual

Filters

Values

Add data fields here

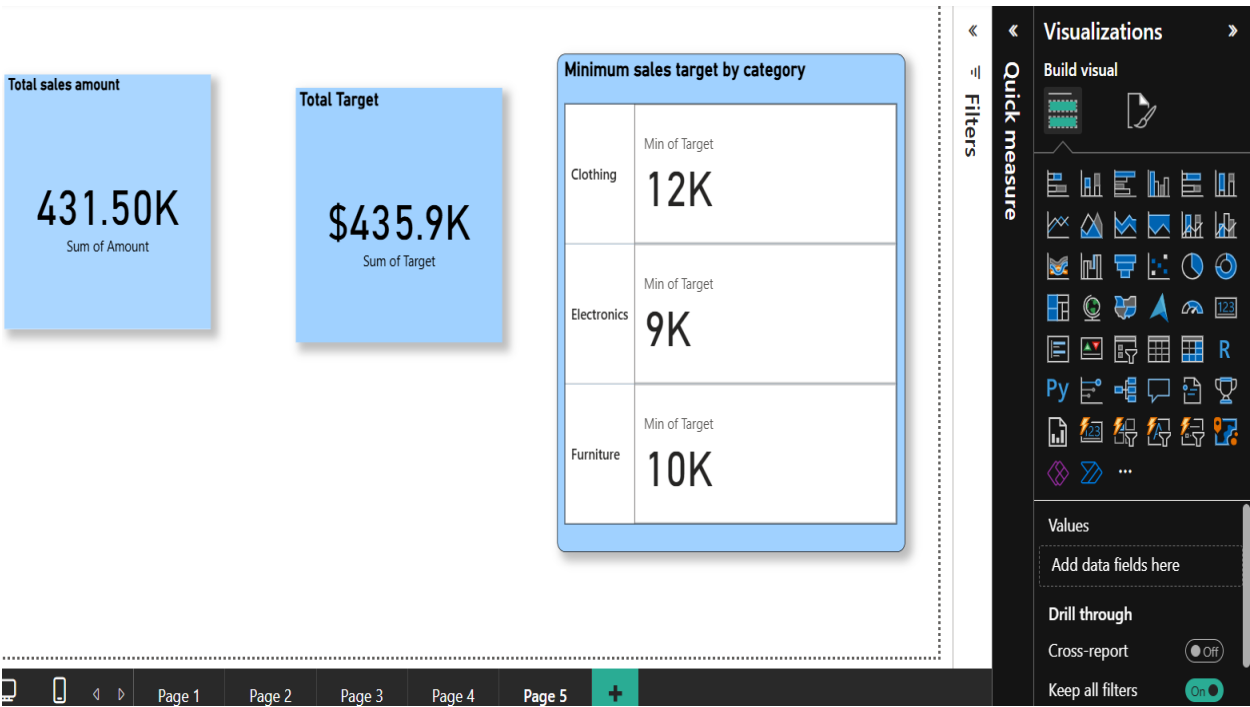
Drill through

Cross-report

# Comparison of Profit and Quantity by Sub-Category:



# Comparison of Total Sales Amount and Target:



Sales Performance Matrix:

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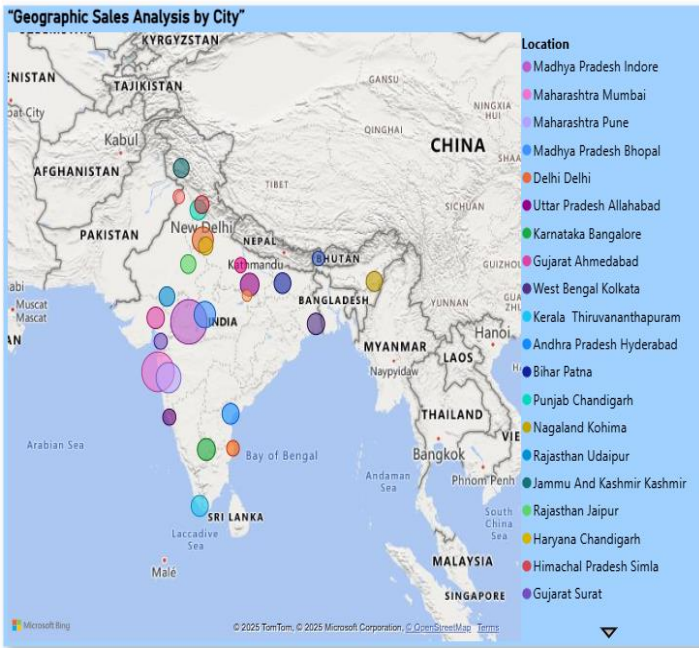
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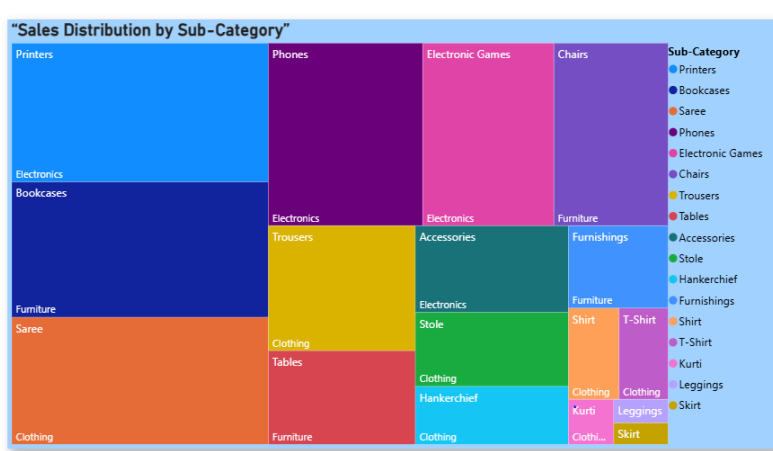
Year	2018		2019		Total	
Category	Sum of Amount	Sum of Target	Sum of Amount	Sum of Target	Sum of Amount	Sum of Target
Clothing	\$94,601	\$435,900	\$44,453	\$435,900	\$139,054	\$435,900
Electronics	\$105,098	\$435,900	\$60,169	\$435,900	\$165,267	\$435,900
Furniture	\$73,003	\$435,900	\$54,178	\$435,900	\$127,181	\$435,900
Total	\$272,702	\$435,900	\$158,800	\$435,900	\$431,502	\$435,900



Geographic Sales Analysis:



# Sales Distribution by Sub-Category:



Build visual

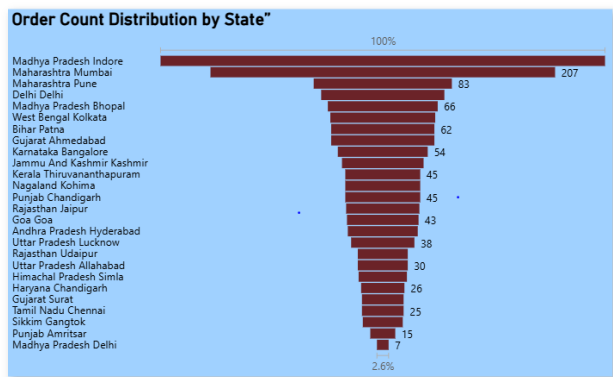
Filters

Values

Add data fields here

Drill through

# Order Count Analysis by State:



Order measure

Filters

Values

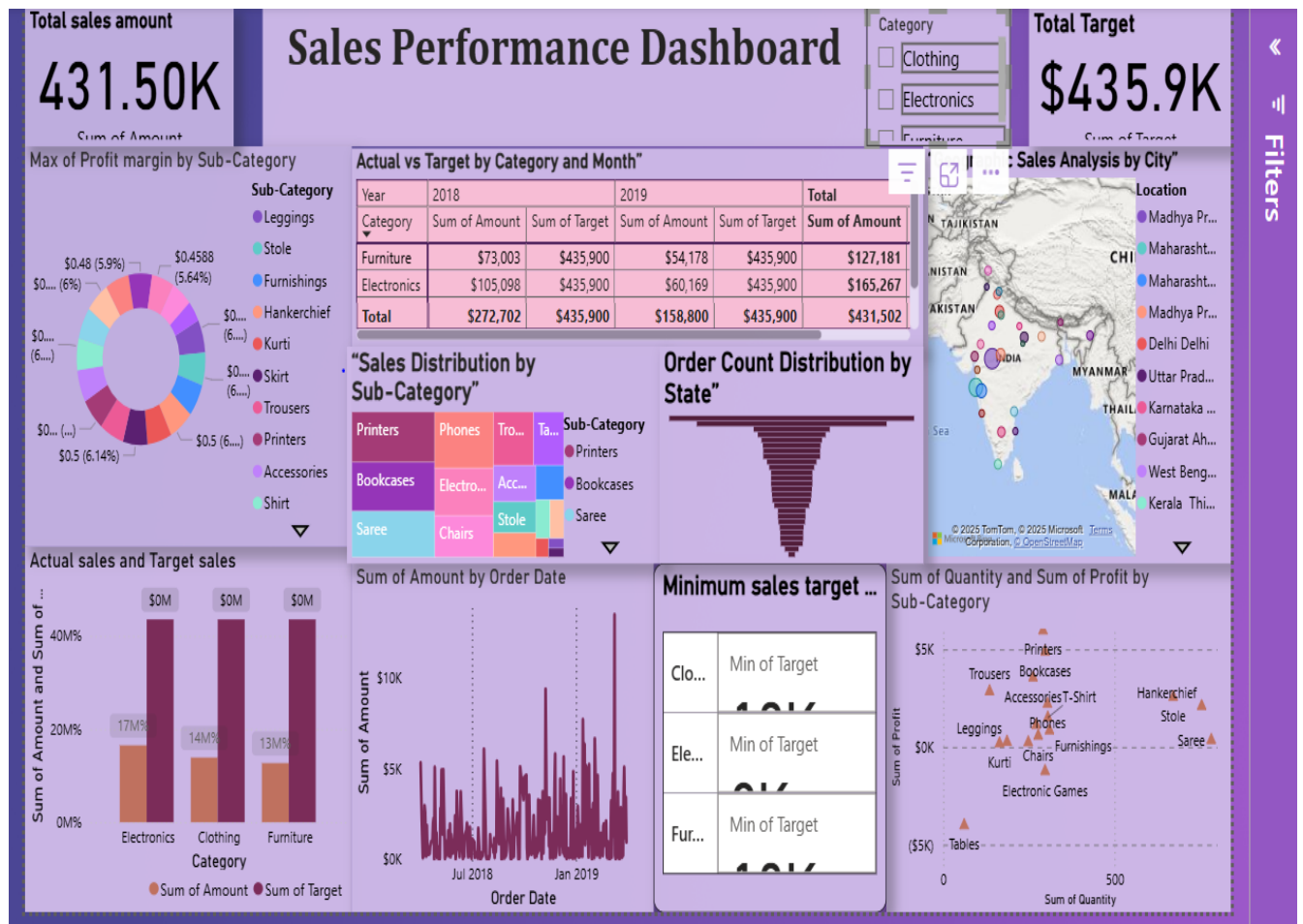
Add data fields here

Drill through

Cross-report

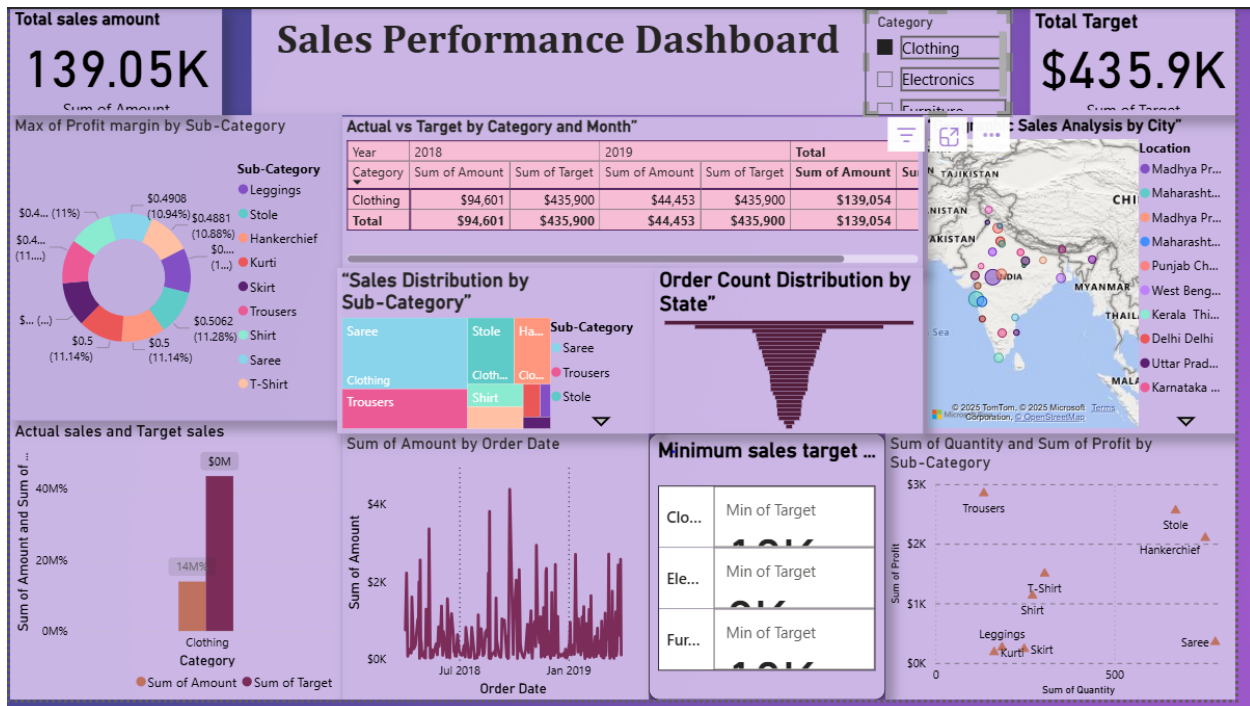


# Data visualization

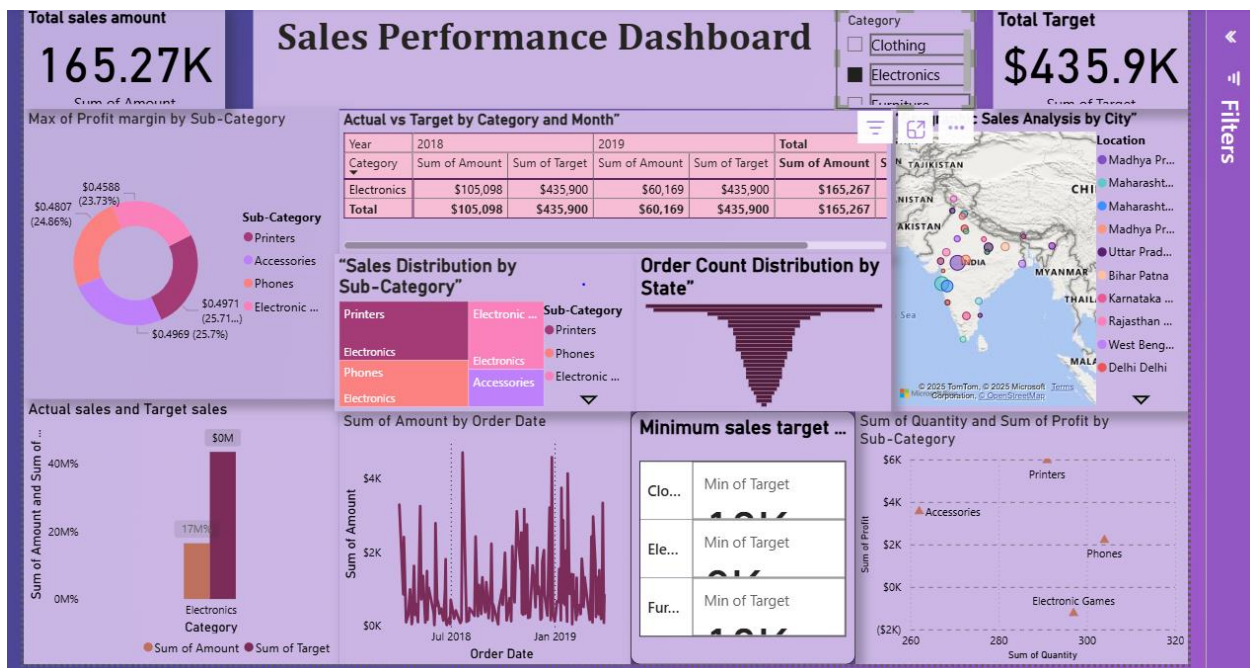


## After using slicers

### Clothing



### Electronics:



Furniture:

