

# Power BI Assignment 2 – DAX & Data Visualization

## Calculated Columns

## Create a Calculated Column for 'Category Type'

Order ID	Amount	Profit	Quantity	Category	Sub-Category	Revenue	Sales category	Category Type
B-25602	561	212	3	Clothing	Saree	1683	Below average	Clothing-Saree
B-25602	119	-5	8	Clothing	Saree	952	Below average	Clothing-Saree
B-25603	193	-166	3	Clothing	Saree	579	Below average	Clothing-Saree
B-25604	157	5	9	Clothing	Saree	1413	Below average	Clothing-Saree
B-25605	75	0	7	Clothing	Saree	525	Below average	Clothing-Saree
B-25609	25	-5	4	Clothing	Saree	100	Below average	Clothing-Saree
B-25610	43	0	3	Clothing	Saree	129	Below average	Clothing-Saree
B-25611	160	-59	2	Clothing	Saree	320	Below average	Clothing-Saree
B-25613	1603	0	9	Clothing	Saree	14427	Below average	Clothing-Saree
B-25619	353	90	8	Clothing	Saree	2824	Below average	Clothing-Saree
B-25622	534	0	3	Clothing	Saree	1602	Below average	Clothing-Saree
B-25623	149	-87	4	Clothing	Saree	596	Below average	Clothing-Saree
B-25625	635	-349	5	Clothing	Saree	3175	Below average	Clothing-Saree
B-25628	24	-9	4	Clothing	Saree	96	Below average	Clothing-Saree
B-25633	711	-8	4	Clothing	Saree	2844	Below average	Clothing-Saree
B-25635	382	30	3	Clothing	Saree	1146	Below average	Clothing-Saree
B-25636	637	113	5	Clothing	Saree	3185	Below average	Clothing-Saree
B-25640	122	-47	4	Clothing	Saree	488	Below average	Clothing-Saree
B-25646	20	-8	2	Clothing	Saree	40	Below average	Clothing-Saree
B-25647	42	-6	4	Clothing	Saree	168	Below average	Clothing-Saree
B-25648	55	-26	4	Clothing	Saree	220	Below average	Clothing-Saree
B-25648	130	-41	4	Clothing	Saree	520	Below average	Clothing-Saree
B-25650	211	-105	2	Clothing	Saree	422	Below average	Clothing-Saree
B-25650	31	-2	2	Clothing	Saree	62	Below average	Clothing-Saree
B-25650	512	-225	5	Clothing	Saree	2560	Below average	Clothing-Saree
B-25650	238	20	2	Clothing	Saree	476	Below average	Clothing-Saree
B-25651	23	4	1	Clothing	Saree	23	Below average	Clothing-Saree
D-25651	452	41	4	Clothing	Saree	1020	Below average	Clothing-Saree

## Calculate Revenue per Order in Order Details Table

Structure      Formatting      Properties      Sort      Groups      Relationships      Calculations

**Revenue = [Order Details:[Amount]] \* [Order Details:[Quantity]]**

Order ID	Amount	Profit	Quantity	Category	Sub-Category	Revenue	Sales category	Category Type
B-25602	561	212	3	Clothing	Saree	1683	Below average	Clothing-Saree
B-25602	119	-5	8	Clothing	Saree	1683	Below average	Clothing-Saree
B-25603	193	-166	3	Clothing	Saree	1683	Below average	Clothing-Saree
B-25604	157	5	9	Clothing	Saree	1413	Below average	Clothing-Saree
B-25605	75	0	7	Clothing	Saree	525	Below average	Clothing-Saree
B-25609	25	-5	4	Clothing	Saree	100	Below average	Clothing-Saree
B-25610	43	0	3	Clothing	Saree	129	Below average	Clothing-Saree
B-25611	160	-59	2	Clothing	Saree	320	Below average	Clothing-Saree
B-25613	1603	0	9	Clothing	Saree	14427	Below average	Clothing-Saree
B-25619	353	90	8	Clothing	Saree	2824	Below average	Clothing-Saree
B-25622	534	0	3	Clothing	Saree	1602	Below average	Clothing-Saree
B-25623	149	-87	4	Clothing	Saree	596	Below average	Clothing-Saree
B-25625	635	-349	5	Clothing	Saree	3175	Below average	Clothing-Saree
B-25628	24	-9	4	Clothing	Saree	96	Below average	Clothing-Saree
B-25633	711	-8	4	Clothing	Saree	2844	Below average	Clothing-Saree
B-25635	382	30	3	Clothing	Saree	1146	Below average	Clothing-Saree
B-25636	637	113	5	Clothing	Saree	3185	Below average	Clothing-Saree
B-25640	122	-47	4	Clothing	Saree	488	Below average	Clothing-Saree
B-25646	20	-8	2	Clothing	Saree	40	Below average	Clothing-Saree
B-25647	42	-6	4	Clothing	Saree	168	Below average	Clothing-Saree
B-25648	55	-26	4	Clothing	Saree	220	Below average	Clothing-Saree
B-25648	130	-41	4	Clothing	Saree	520	Below average	Clothing-Saree
B-25650	211	-105	2	Clothing	Saree	422	Below average	Clothing-Saree
B-25650	31	-2	2	Clothing	Saree	62	Below average	Clothing-Saree
B-25650	512	-225	5	Clothing	Saree	2560	Below average	Clothing-Saree
B-25650	238	20	2	Clothing	Saree	476	Below average	Clothing-Saree
B-25651	23	4	1	Clothing	Saree	23	Below average	Clothing-Saree
B-25651	457	43	1	Clothing	Saree	1920	Below average	Clothing-Saree

## Create a Calculated Column to Categorize Sales

Structure      Formatting      Properties      Sort      Groups      Relationships      Calculations

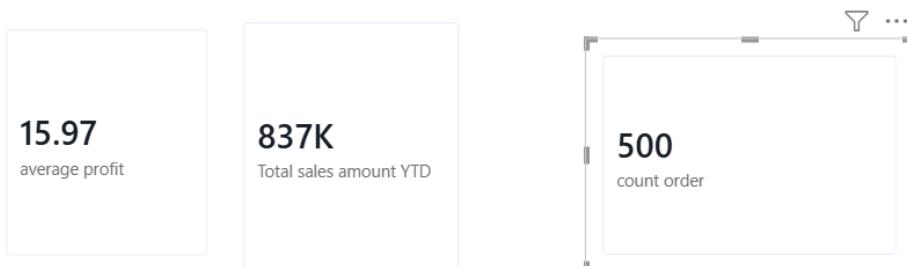
`= Sales category = if('Order Details'[Amount] >= 2500, "above average", "Below average")`

Order ID	Amount	Profit	Quantity	Category	Sub-Category	Revenue	Sales category	Category Type
B-25602	561	212	3	Clothing	Saree	1683	Below average	Clothing-Saree
B-25602	119	-5	8	Clothing	Saree	952	Below average	Clothing-Saree
B-25603	193	-166	3	Clothing	Saree	579	Below average	Clothing-Saree
B-25604	157	5	9	Clothing	Saree	1413	Below average	Clothing-Saree
B-25605	75	0	7	Clothing	Saree	525	Below average	Clothing-Saree
B-25609	25	-5	4	Clothing	Saree	100	Below average	Clothing-Saree
B-25610	43	0	3	Clothing	Saree	129	Below average	Clothing-Saree
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B-25650	512	-225	5	Clothing	Saree	2560	Below average	Clothing-Saree
B-25650	238	20	2	Clothing	Saree	476	Below average	Clothing-Saree
B-25651	23	4	1	Clothing	Saree	23	Below average	Clothing-Saree
Total: 1,500 rows		457	41	1	Clothing	837K	Below average	Clothing-Saree

Table: Order Details (1,500 rows) Column: Sales category (2 distinct values)

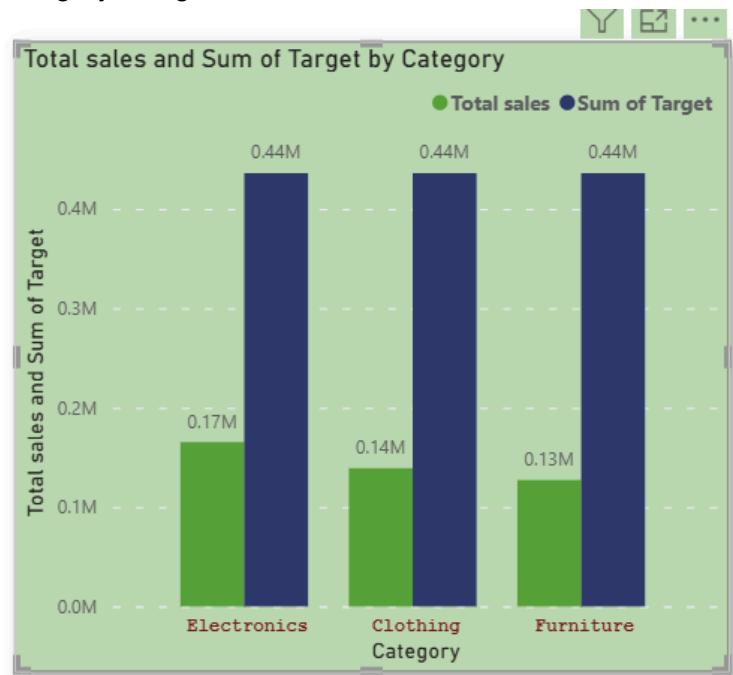
## Calculated Measures

### Calculate Order Count:Average Profit in Delhi, Year-to-Date (YTD) Sales:

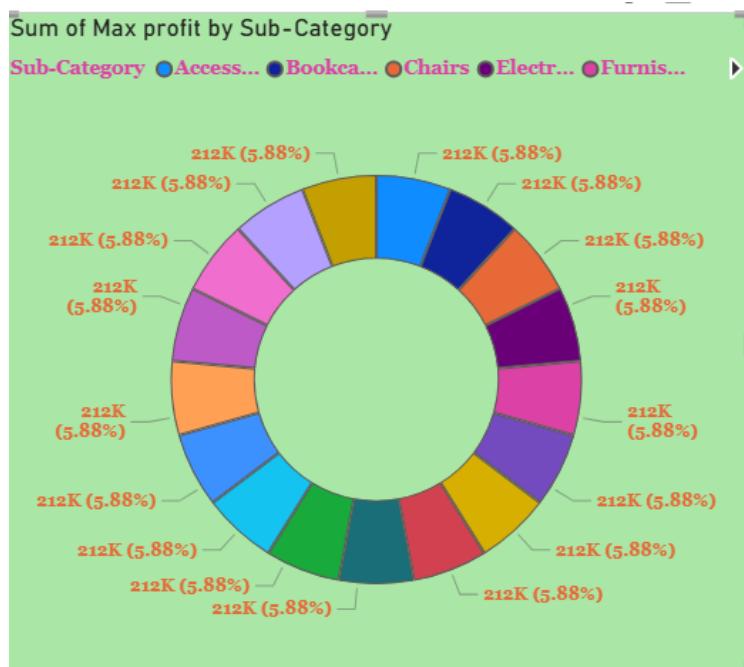


## Data Visualization

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



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



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



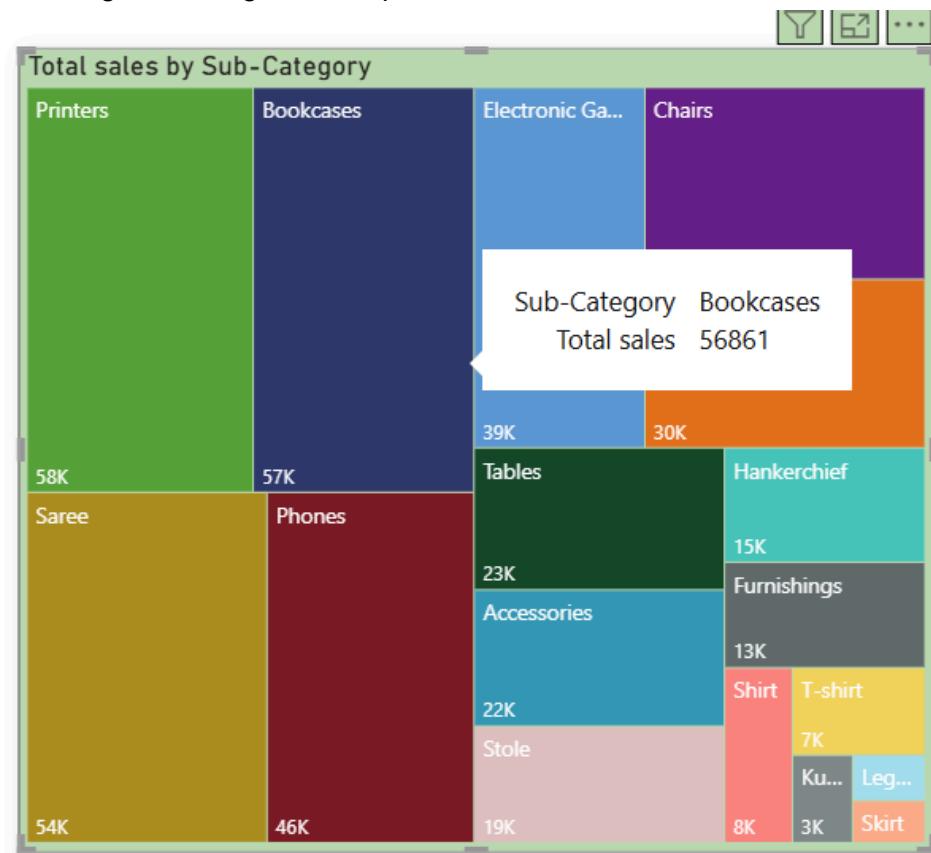
## Comparison of Profit and Quantity by Sub-Category: Compare the relationship between profit and quantity sold for different sub-categories using a scatter chart.



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

Sub-Category	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
<b>Total</b>	<b>435900</b>														
Accessories	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	<b>435900</b>
Bookcases	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	<b>435900</b>
Chairs	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	<b>435900</b>
Electronic Games	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	<b>435900</b>
Furnishings	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	<b>435900</b>
Hankerchief	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	<b>435900</b>
Kurti	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	<b>435900</b>
Leggings	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	<b>435900</b>
Phones	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	<b>435900</b>
Printers	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	<b>435900</b>
Saree	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	<b>435900</b>
Shirt	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	<b>435900</b>
Skirt	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	<b>435900</b>
Stole	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	<b>435900</b>
Tables	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	435900	<b>435900</b>

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



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

