

Power BI Assignment 2 – DAX & Data Visualization

Calculated Columns

Create a Calculated Column for 'Category Type'

The screenshot shows the Power BI Desktop interface. The formula bar at the top displays the DAX formula: `Category Type = 'Order Details'[Category] & '-' & 'Order Details'[Sub-Category]`. The main table view shows the 'Order Details' table with columns: Order ID, Amount, Profit, Quantity, Category, Sub-Category, Revenue, Sales category, and Category Type. The 'Category Type' column contains concatenated values of Category and Sub-Category, such as 'Clothing-Saree'. The right-hand pane shows the 'Data' view with the 'Order Details' table selected, and the 'Category Type' column highlighted in the column list.

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
B-25651	457	41	4	Clothing	Saree	1839	Below average	Clothing-Saree

Calculate Revenue per Order in Order Details Table

The screenshot shows the Power BI Desktop interface. The formula bar at the top displays the DAX formula: `Revenue = 'Order Details'[Amount] * 'Order Details'[Quantity]`. The main table view shows the 'Order Details' table with columns: Order ID, Amount, Profit, Quantity, Category, Sub-Category, Revenue, Sales category, and Category Type. The 'Revenue' column contains calculated values, such as 1683 for the first row. The right-hand pane shows the 'Data' view with the 'Order Details' table selected, and the 'Revenue' column highlighted in the column list.

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
B-25651	457	41	4	Clothing	Saree	1839	Below average	Clothing-Saree

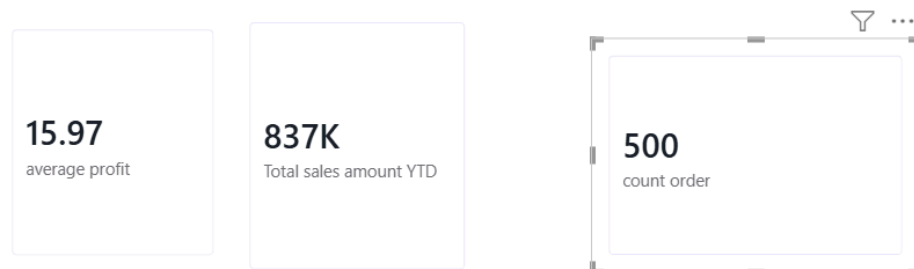
Create a Calculated Column to Categorize Sales

	Structure	Formatting	Properties	Sort	Groups	Relationships	Calculations	Data
	X ✓						Sales category = If('Order-Details'[Amount] >= 2500, "above average", "Below average")	Search
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
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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
B-25651	457	41	4	Clothing	Saree	1030	Below average	Clothing-Saree

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

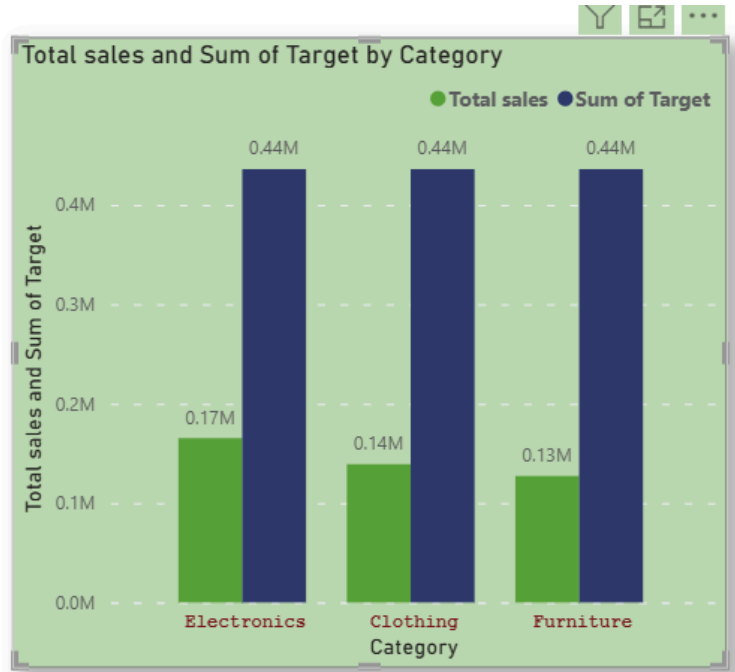
Calculated Measures

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

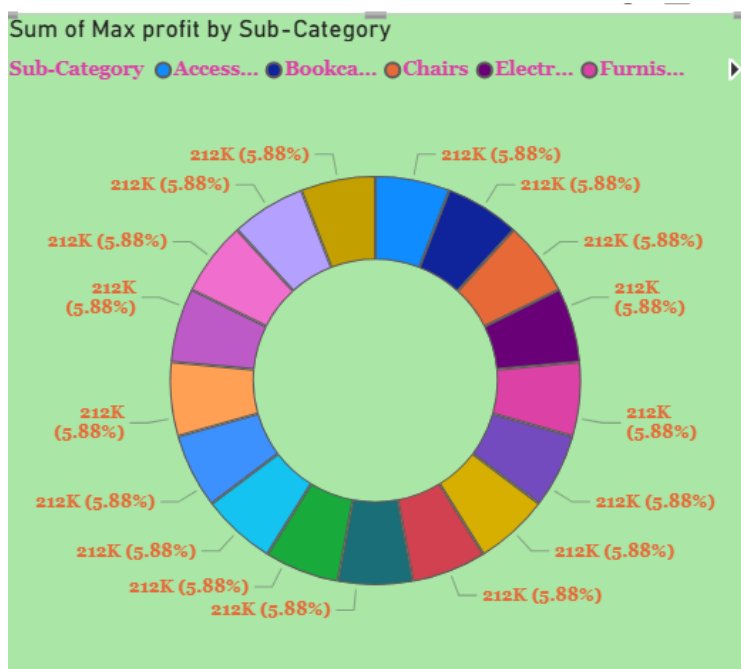


Data Visualization

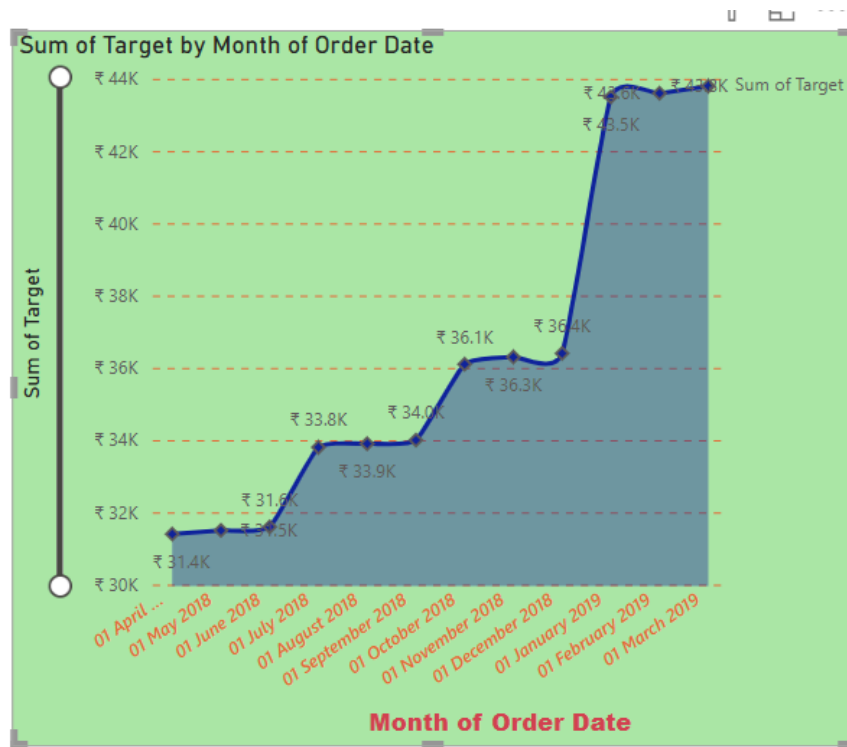
Sales Target Achievement by Category: Compare actual sales with sales targets by category using a clustered column chart



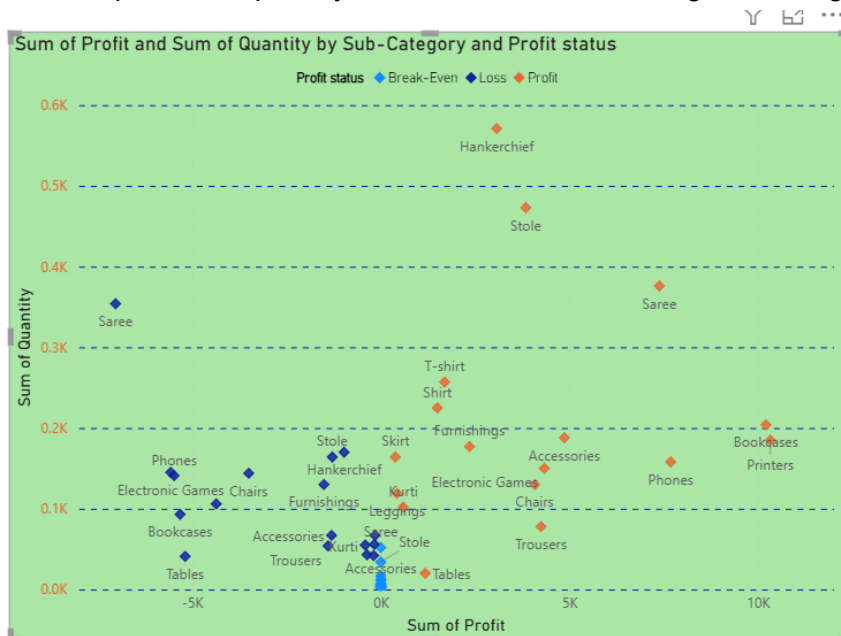
Max Profit Margin by Sub-Category: Analyze the maximum profit margin for each sub-category of products using a donut chart.



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.

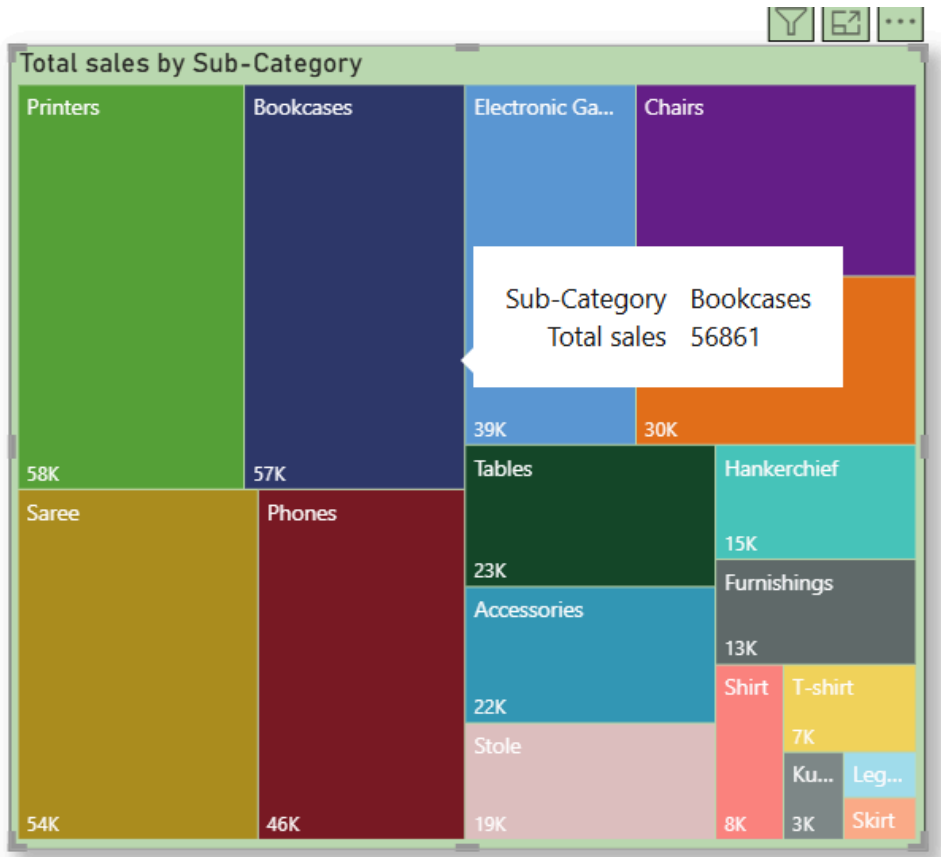


Sales Performance Matrix: Build a matrix view to analyze how actual sales compare to sales targets across different categories and months.

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

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

