

Power BI Assignment 1 - Data Transformation, Data Modeling

Data Transformation:

Restrict the "List of Orders" table to only the first 500 rows.

The screenshot displays the Microsoft Power BI Desktop interface. The ribbon at the top includes tabs for File, Home, Insert, Modeling, View, Optimize, Help, Format, and Data / Drill. The 'Data / Drill' tab is active, showing options like Transform, Refresh, New visual, Text box, and More visuals. The main workspace shows a calculated measure named 'Count_Order_ID' with a value of 500. The right-hand pane shows the 'Visualizations' pane with a bar chart icon selected, and the 'Data' pane showing the 'List of Orders' table. The bottom status bar indicates 'Page 2 of 2' and 'List of Orders Count'.

Assignment 1 Power BI (Power BI Assignment 1 - Data Transformation, Data Modeling) • Last saved: 9/14/2025 at 8:13 PM

File Home Insert Modeling View Optimize Help Format Data / Drill

Clipboard: Paste, Cut, Copy, Format painter

Data sources: Get data, Excel workbook, OneLake catalog, SQL Server, Enter data, Dataverse, Recent sources

Transformations: Transform data, Refresh data

Visuals: New visual, Text box, More visuals

Calculations: New visual calculation, New measure, Quick measure

Sensitivity: Sensitivity, Publish

Prep data for Copilot AI

Visualizations pane: Build visual, Filters, Data, Categories, Tooltips, Drill through, Cross-report, Keep all filters, Add drill-through fields here

Data pane: Search, List of Orders, Order Details, Order Details (Duplicate), Orders Data, Sales target, Sales target (Duplicate)

Count_Order_ID: 500

Page 2 of 2 | List of Orders Count

Windows taskbar: Type here to search, 29°C, 6:43 PM, 9/19/2025

Ensure the “Order Date” column in the “List of Orders” table is set to data type 'Date'.

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File Home Transform Add Column View Tools Help

Close & Apply New Source Recent Enter Data Data source settings Manage Parameters Refresh Preview Manage Query Choose Columns Remove Columns Keep Rows Remove Rows Sort Split Column Group By Transform Data Type: Date Use First Row as Headers Merge Queries Append Queries Combine Files Combine

Queries [6]

List of Orders

Order Details

Sales target

Orders Data

Order Details (Duplicate)

Sales target (Duplicate)

Table.Distinct(*Added Custom*, {"Order ID"})

Order ID	Order Date	CustomerName	State	City	Location
B-25601	4/1/2018	Bharat	Gujarat	Ahmedabad	Gujarat,Ahmedabad
B-25602	4/1/2018	Pearl	Maharashtra	Pune	Maharashtra,Pune
B-25603	4/1/2018	Jahan	Madhya Pradesh	Bhopal	Madhya Pradesh,Bhopal
B-25604	4/3/2018	Divsha	Rajasthan	Jaipur	Rajasthan,Jaipur
B-25605	4/5/2018	Kasheen	West Bengal	Kolkata	West Bengal,Kolkata
B-25606	4/6/2018	Hazel	Karnataka	Bangalore	Karnataka,Bangalore
B-25607	4/6/2018	Sonakshi	Jammu and Kashmir	Kashmir	Jammu and Kashmir,Kashmir
B-25608	4/8/2018	Aarushi	Tamil Nadu	Chennai	Tamil Nadu,Chennai
B-25609	4/9/2018	Iltesh	Uttar Pradesh	Lucknow	Uttar Pradesh,Lucknow
B-25610	4/9/2018	Yogesh	Bihar	Patna	Bihar,Patna
B-25611	4/11/2018	Anita	Kerala	Thiruvananthapuram	Kerala,Thiruvananthapuram
B-25612	4/12/2018	Shrichand	Punjab	Chandigarh	Punjab,Chandigarh
B-25613	4/12/2018	Mukesh	Haryana	Chandigarh	Haryana,Chandigarh
B-25614	4/13/2018	Vandana	Himachal Pradesh	Simla	Himachal Pradesh,Simla
B-25615	4/15/2018	Bhavna	Sikkim	Gangtok	Sikkim,Gangtok
B-25616	4/15/2018	Kanak	Goa	Goa	Goa,Goa
B-25617	4/17/2018	Sagar	Nagaland	Kohima	Nagaland,Kohima
B-25618	4/18/2018	Manju	Andhra Pradesh	Hyderabad	Andhra Pradesh,Hyderabad
B-25619	4/18/2018	Ramesh	Gujarat	Ahmedabad	Gujarat,Ahmedabad
B-25620	4/20/2018	Sarita	Maharashtra	Pune	Maharashtra,Pune
B-25621	4/20/2018	Deepak	Madhya Pradesh	Bhopal	Madhya Pradesh,Bhopal
B-25622	4/22/2018	Monisha	Rajasthan	Jaipur	Rajasthan,Jaipur
B-25623	4/22/2018	Atharv	West Bengal	Kolkata	West Bengal,Kolkata
B-25624	4/22/2018	Vini	Karnataka	Bangalore	Karnataka,Bangalore
B-25625	4/23/2018	Pinky	Jammu and Kashmir	Kashmir	Jammu and Kashmir,Kashmir
B-25626	4/23/2018	Bhishm	Maharashtra	Mumbai	Maharashtra,Mumbai
B-25627	4/23/2018	Hitika	Madhya Pradesh	Indore	Madhya Pradesh,Indore
B-25628	4/24/2018	Pooja	Bihar	Patna	Bihar,Patna

6 COLUMNS, 501 ROWS Column profiling based on top 1000 rows

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Change the data type of “Amount” and “Target” columns to ‘Fixed Decimal Number’

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Queries [6]

List of Orders

Order Details

Sales target

Orders Data

Order Details (Duplicate)

Sales target (Duplicate)

Table.Distinct(*Added Custom*, {"Order ID"})

Order ID	Amount	Profit	Quantity	Category	Sub-Category	Profit Margin
B-25601	1,275.00	-1148		7 Furniture	Bookcases	
B-25602	168.00	-211		2 Electronics	Phones	
B-25603	1,355.00	-60		5 Clothing	Trousers	
B-25604	65.00	17		2 Clothing	T-shirt	
B-25605	75.00	0		7 Clothing	Saree	
B-25606	87.00	4		2 Clothing	Shirt	
B-25607	50.00	15		4 Clothing	Leggings	
B-25608	1,364.00	-1864		5 Furniture	Tables	
B-25609	485.00	29		4 Electronics	Electronic Games	
B-25610	1,076.00	-38		4 Electronics	Printers	
B-25611	160.00	-59		2 Clothing	Saree	
B-25612	259.00	-55		2 Furniture	Chairs	
B-25613	1,603.00	0		9 Clothing	Saree	
B-25614	494.00	54		4 Furniture	Bookcases	
B-25615	68.00	20		5 Clothing	Hankchief	
B-25616	42.00	12		5 Clothing	Hankchief	
B-25617	305.00	-270		5 Electronics	Electronic Games	
B-25618	362.00	127		1 Furniture	Bookcases	
B-25619	353.00	90		8 Clothing	Saree	
B-25620	193.00	46		1 Electronics	Printers	
B-25621	233.00	-10		5 Electronics	Electronic Games	
B-25622	534.00	0		3 Clothing	Saree	
B-25623	53.00	1		4 Clothing	Stole	
B-25624	26.00	12		3 Clothing	Hankchief	
B-25625	97.00	29		2 Clothing	Hankchief	
B-25626	46.00	-14		1 Electronics	Phones	
B-25627	55.00	-39		4 Clothing	Stole	
B-25628	45.00	1		1 Clothing	Stole	

7 COLUMNS, 500 ROWS Column profiling based on top 1000 rows

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File Home Transform Add Column View Tools Help

Close & Apply New Source Recent Sources Enter Data Data source settings Manage Parameters Refresh Preview Advanced Editor Choose Remove Columns Keep Rows Remove Rows Split Column Group By Data Type: Fixed decimal number Merge Queries Append Queries Combine Files Combine

Queries [6]

- List of Orders
- Order Details
- Sales target
- Orders Data
- Order Details (Duplicate)
- Sales target (Duplicate)

Table.TransformColumnTypes({"Changed Type",{"Target",Currency.Type}})

	Month of Order Date	Category	Target
1	4/18/2025	Furniture	10,400.00
2	5/2/2025	Furniture	10,500.00
3	6/18/2025	Furniture	10,600.00
4	7/18/2025	Furniture	10,800.00
5	8/18/2025	Furniture	10,900.00
6	9/18/2025	Furniture	11,000.00
7	10/18/2025	Furniture	11,100.00
8	11/18/2025	Furniture	11,300.00
9	12/18/2025	Furniture	11,400.00
10	1/19/2025	Furniture	11,500.00
11	2/19/2025	Furniture	11,600.00
12	3/19/2025	Furniture	11,800.00
13	4/18/2025	Clothing	12,000.00
14	5/18/2025	Clothing	12,000.00
15	6/18/2025	Clothing	12,000.00
16	7/18/2025	Clothing	14,000.00
17	8/18/2025	Clothing	14,000.00
18	9/18/2025	Clothing	14,000.00
19	10/18/2025	Clothing	16,000.00
20	11/18/2025	Clothing	16,000.00
21	12/18/2025	Clothing	16,000.00
22	1/19/2025	Clothing	16,000.00
23	2/19/2025	Clothing	16,000.00
24	3/19/2025	Clothing	16,000.00
25	4/18/2025	Electronics	9,000.00
26	5/18/2025	Electronics	9,000.00
27	6/18/2025	Electronics	9,000.00
28	7/18/2025	Electronics	9,000.00

3 COLUMNS, 36 ROWS Column profiling based on top 1000 rows

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Format the "Customer Name" column into proper case, ensuring consistent capitalization for each word.

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File Home Transform Add Column View Tools Help

Close & Apply New Source Recent Sources Enter Data Data source settings Manage Parameters Refresh Preview Advanced Editor Choose Remove Columns Keep Rows Remove Rows Split Column Group By Data Type: Text Merge Queries Append Queries Combine Files Combine

Queries [6]

- List of Orders
- Order Details
- Sales target
- Orders Data
- Order Details (Duplicate)
- Sales target (Duplicate)

Table.Distinct({"Added Custom",{"Order ID"}})

Order ID	Order Date	CustomerName	State	City	Location
1 B-25601	4/1/2018	Bharat	Gujarat	Ahmedabad	Gujarat,Ahmedabad
2 B-25602	4/1/2018	Pearl	Maharashtra	Pune	Maharashtra,Pune
3 B-25603	4/1/2018	Jahan	Madhya Pradesh	Bhopal	Madhya Pradesh,Bhopal
4 B-25604	4/3/2018	Divsha	Rajasthan	Jaipur	Rajasthan,Jaipur
5 B-25605	4/9/2018	Kasheem	West Bengal	Kolkata	West Bengal,Kolkata
6 B-25606	4/6/2018	Hazel	Karnataka	Bangalore	Karnataka,Bangalore
7 B-25607	4/6/2018	Sonakshi	Jammu and Kashmir	Kashmir	Jammu and Kashmir,Kashmir
8 B-25608	4/8/2018	Aarushi	Tamil Nadu	Chennai	Tamil Nadu,Chennai
9 B-25609	4/9/2018	Jitesh	Uttar Pradesh	Lucknow	Uttar Pradesh,Lucknow
10 B-25610	4/9/2018	Yogesh	Bihar	Patna	Bihar,Patna
11 B-25611	4/11/2018	Anita	Kerala	Thiruvananthapuram	Kerala,Thiruvananthapuram
12 B-25612	4/12/2018	Shrichand	Punjab	Chandigarh	Punjab,Chandigarh
13 B-25613	4/12/2018	Mukesh	Haryana	Chandigarh	Haryana,Chandigarh
14 B-25614	4/13/2018	Vandana	Himachal Pradesh	Simla	Himachal Pradesh,Simla
15 B-25615	4/15/2018	Bhavna	Sikkim	Gangtok	Sikkim,Gangtok
16 B-25616	4/15/2018	Kanak	Goa	Goa	Goa,Goa
17 B-25617	4/17/2018	Sagar	Nagaland	Kohima	Nagaland,Kohima
18 B-25618	4/18/2018	Manju	Andhra Pradesh	Hyderabad	Andhra Pradesh,Hyderabad
19 B-25619	4/18/2018	Ramesh	Gujarat	Ahmedabad	Gujarat,Ahmedabad
20 B-25620	4/20/2018	Sarita	Maharashtra	Pune	Maharashtra,Pune
21 B-25621	4/20/2018	Deepak	Madhya Pradesh	Bhopal	Madhya Pradesh,Bhopal
22 B-25622	4/22/2018	Monisha	Rajasthan	Jaipur	Rajasthan,Jaipur
23 B-25623	4/22/2018	Atharv	West Bengal	Kolkata	West Bengal,Kolkata
24 B-25624	4/22/2018	Vini	Karnataka	Bangalore	Karnataka,Bangalore
25 B-25625	4/23/2018	Pinky	Jammu and Kashmir	Kashmir	Jammu and Kashmir,Kashmir
26 B-25626	4/23/2018	Bhishm	Maharashtra	Mumbai	Maharashtra,Mumbai
27 B-25627	4/23/2018	Hitika	Madhya Pradesh	Indore	Madhya Pradesh,Indore
28 B-25628	4/24/2018	Pooja	Bihar	Patna	Bihar,Patna

6 COLUMNS, 501 ROWS Column profiling based on top 1000 rows

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Merge the "State" and "City" columns to create a new column named "Location" in the format 'City, State'.

Table: List of Orders (501 rows) Column: Location (27 distinct values)

Order ID	Order Date	CustomerName	State	City	Location
B-25627	Monday, April 23, 2018	Hirika	Madhya Pradesh	Indore	Madhya Pradesh,Indore
B-25637	Thursday, April 26, 2018	Ashmi	Madhya Pradesh	Indore	Madhya Pradesh,Indore
B-25645	Tuesday, May 1, 2018	Yaanvi	Madhya Pradesh	Indore	Madhya Pradesh,Indore
B-25651	Monday, May 7, 2018	Anurag	Madhya Pradesh	Indore	Madhya Pradesh,Indore
B-25655	Friday, May 11, 2018	Nida	Madhya Pradesh	Indore	Madhya Pradesh,Indore
B-25663	Saturday, May 19, 2018	Pournamasi	Madhya Pradesh	Indore	Madhya Pradesh,Indore
B-25680	Monday, June 4, 2018	Aayushi	Madhya Pradesh	Indore	Madhya Pradesh,Indore
B-25681	Monday, June 4, 2018	Bhawna	Madhya Pradesh	Indore	Madhya Pradesh,Indore
B-25685	Sunday, June 10, 2018	Sheetal	Madhya Pradesh	Indore	Madhya Pradesh,Indore
B-25688	Monday, June 11, 2018	Sweetha	Madhya Pradesh	Indore	Madhya Pradesh,Indore
B-25690	Friday, June 15, 2018	Gunjan	Madhya Pradesh	Indore	Madhya Pradesh,Indore
B-25692	Sunday, June 17, 2018	Rashmi	Madhya Pradesh	Indore	Madhya Pradesh,Indore
B-25701	Tuesday, June 26, 2018	Maitilee	Madhya Pradesh	Indore	Madhya Pradesh,Indore
B-25703	Thursday, June 28, 2018	Ekta	Madhya Pradesh	Indore	Madhya Pradesh,Indore
B-25705	Saturday, June 30, 2018	Shweta	Madhya Pradesh	Indore	Madhya Pradesh,Indore
B-25708	Sunday, July 1, 2018	Kishwar	Madhya Pradesh	Indore	Madhya Pradesh,Indore
B-25709	Sunday, July 1, 2018	Aakanksha	Madhya Pradesh	Indore	Madhya Pradesh,Indore
B-25719	Thursday, July 12, 2018	Rashmi	Madhya Pradesh	Indore	Madhya Pradesh,Indore
B-25724	Thursday, July 19, 2018	Sheetal	Madhya Pradesh	Indore	Madhya Pradesh,Indore
B-25727	Sunday, July 22, 2018	Tunumella	Madhya Pradesh	Indore	Madhya Pradesh,Indore
B-25734	Sunday, July 29, 2018	Pranav	Madhya Pradesh	Indore	Madhya Pradesh,Indore
B-25737	Wednesday, August 1, 2018	Shubham	Madhya Pradesh	Indore	Madhya Pradesh,Indore
B-25741	Friday, August 3, 2018	Navdeep	Madhya Pradesh	Indore	Madhya Pradesh,Indore
B-25750	Tuesday, August 14, 2018	Priyanshu	Madhya Pradesh	Indore	Madhya Pradesh,Indore
B-25752	Tuesday, August 14, 2018	Vaibhav	Madhya Pradesh	Indore	Madhya Pradesh,Indore
B-25757	Tuesday, August 21, 2018	Mohit	Madhya Pradesh	Indore	Madhya Pradesh,Indore
B-25762	Sunday, August 26, 2018	Anudeep	Madhya Pradesh	Indore	Madhya Pradesh,Indore
B-25770	Sunday, September 2, 2018	Sakshi	Madhya Pradesh	Indore	Madhya Pradesh,Indore

Create a new custom column named "Profit Margin" as the percentage of "Profit" divided by "Amount".

Table: Order Details (Duplicate) (500 rows) Column: Profit Margin (446 distinct values)

Order ID	Amount	Profit	Quantity	Category	Sub-Category	Profit Margin
B-25623	\$53	1	4	Clothing	Stole	1.886792453
B-25627	\$55	-39	4	Clothing	Stole	-70.90909091
B-25630	\$133	12	5	Clothing	Stole	9.022556391
B-25649	\$27	-25	2	Clothing	Stole	-92.59259259
B-25670	\$74	29	3	Clothing	Stole	39.18918919
B-25672	\$27	-15	1	Clothing	Stole	-55.55555556
B-25687	\$17	6	1	Clothing	Stole	35.29411765
B-25706	\$31	-11	4	Clothing	Stole	-35.48387097
B-25707	\$8	-6	1	Clothing	Stole	-75
B-25719	\$29	10	2	Clothing	Stole	34.48275862
B-25722	\$48	-8	8	Clothing	Stole	-16.66666667
B-25723	\$26	-24	1	Clothing	Stole	-92.30769231
B-25732	\$16	-5	2	Clothing	Stole	-31.25
B-25733	\$43	-43	7	Clothing	Stole	-100
B-25740	\$40	-37	3	Clothing	Stole	-92.5
B-25745	\$44	-8	3	Clothing	Stole	-18.18181818
B-25758	\$8	-2	1	Clothing	Stole	-25
B-25765	\$139	14	3	Clothing	Stole	10.07194245
B-25775	\$50	-17	2	Clothing	Stole	-34
B-25783	\$25	-11	1	Clothing	Stole	-44
B-25788	\$12	3	1	Clothing	Stole	25
B-25792	\$74	-25	3	Clothing	Stole	-33.78378378
B-25807	\$16	6	1	Clothing	Stole	37.5
B-25815	\$35	14	2	Clothing	Stole	40
B-25816	\$391	113	8	Clothing	Stole	28.90025575
B-25821	\$60	21	4	Clothing	Stole	35
B-25834	\$16	5	1	Clothing	Stole	31.25
B-25837	\$263	50	5	Clothing	Stole	19.01140684

Add a new conditional column named "Profit Status" based on the values in the "Profit" column. The conditions are as follows: if the profit is less than 0, the label should be "Loss"; if the profit equals 0, the label should be "Break-Even"; and if the profit is greater than 0, the label should be "Profit".

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File Home Help Table tools Column tools

Clipboard Get data Excel OneLake SQL Server Enter data Data Transform Refresh data Queries Manage relationships Relationships New measure measure column Calculations Quick New table New table Manage roles View as Sensitivity Sensitivity Publish

1 Profit Status = If('Order Details'[Profit]<0,"Loss",If('Order Details'[Profit]=0,"Break-Even","Profit"))

Order ID	Amount	Profit	Quantity	Category	Sub-Category	Profit Margin	Profit Status	Profit Status 2
B-25623	\$53	1	4	Clothing	Stole	1.886792453	Profit	Profit
B-25627	\$55	-39	4	Clothing	Stole	-70.90909091	Loss	Loss
B-25630	\$133	12	5	Clothing	Stole	9.022556391	Profit	Profit
B-25649	\$27	-25	2	Clothing	Stole	-92.59259259	Loss	Loss
B-25670	\$74	29	3	Clothing	Stole	39.18918919	Profit	Profit
B-25672	\$27	-15	1	Clothing	Stole	-55.55555556	Loss	Loss
B-25687	\$17	6	1	Clothing	Stole	35.29411765	Profit	Profit
B-25706	\$31	-11	4	Clothing	Stole	-35.48387097	Loss	Loss
B-25707	\$8	-6	1	Clothing	Stole	-75	Loss	Loss
B-25719	\$29	10	2	Clothing	Stole	34.48275862	Profit	Profit
B-25722	\$48	-8	8	Clothing	Stole	-16.66666667	Loss	Loss
B-25723	\$26	-24	1	Clothing	Stole	-92.30769231	Loss	Loss
B-25732	\$16	-5	2	Clothing	Stole	-31.25	Loss	Loss
B-25733	\$43	-43	7	Clothing	Stole	-100	Loss	Loss
B-25740	\$40	-37	3	Clothing	Stole	-92.5	Loss	Loss
B-25745	\$44	-8	3	Clothing	Stole	-18.18181818	Loss	Loss
B-25758	\$8	-2	1	Clothing	Stole	-25	Loss	Loss
B-25765	\$139	14	3	Clothing	Stole	10.07194245	Profit	Profit
B-25775	\$50	-17	2	Clothing	Stole	-34	Loss	Loss
B-25783	\$25	-11	1	Clothing	Stole	-44	Loss	Loss
B-25788	\$12	3	1	Clothing	Stole	25	Profit	Profit
B-25792	\$74	-25	3	Clothing	Stole	-33.78378378	Loss	Loss
B-25807	\$16	6	1	Clothing	Stole	37.5	Profit	Profit
B-25815	\$35	14	2	Clothing	Stole	40	Profit	Profit
B-25816	\$391	113	8	Clothing	Stole	28.90025575	Profit	Profit
B-25821	\$60	21	4	Clothing	Stole	35	Profit	Profit
B-25834	\$16	5	1	Clothing	Stole	31.25	Profit	Profit
B-25837	\$263	50	5	Clothing	Stole	19.01140684	Profit	Profit

Table: Order Details (500 rows) Column: Profit Status (3 distinct values)

Type here to search

Update available (click to download)

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File Home Help Table tools Column tools

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1 Profit Status 2 = SWITCH(TRUE(), 'Order Details'[Profit]<0,"Loss", 'Order Details'[Profit]=0,"Break-Even","Profit")

Order ID	Amount	Profit	Quantity	Category	Sub-Category	Profit Margin	Profit Status	Profit Status 2
B-25623	\$53	1	4	Clothing	Stole	1.886792453	Profit	Profit
B-25627	\$55	-39	4	Clothing	Stole	-70.90909091	Loss	Loss
B-25630	\$133	12	5	Clothing	Stole	9.022556391	Profit	Profit
B-25649	\$27	-25	2	Clothing	Stole	-92.59259259	Loss	Loss
B-25670	\$74	29	3	Clothing	Stole	39.18918919	Profit	Profit
B-25672	\$27	-15	1	Clothing	Stole	-55.55555556	Loss	Loss
B-25687	\$17	6	1	Clothing	Stole	35.29411765	Profit	Profit
B-25706	\$31	-11	4	Clothing	Stole	-35.48387097	Loss	Loss
B-25707	\$8	-6	1	Clothing	Stole	-75	Loss	Loss
B-25719	\$29	10	2	Clothing	Stole	34.48275862	Profit	Profit
B-25722	\$48	-8	8	Clothing	Stole	-16.66666667	Loss	Loss
B-25723	\$26	-24	1	Clothing	Stole	-92.30769231	Loss	Loss
B-25732	\$16	-5	2	Clothing	Stole	-31.25	Loss	Loss
B-25733	\$43	-43	7	Clothing	Stole	-100	Loss	Loss
B-25740	\$40	-37	3	Clothing	Stole	-92.5	Loss	Loss
B-25745	\$44	-8	3	Clothing	Stole	-18.18181818	Loss	Loss
B-25758	\$8	-2	1	Clothing	Stole	-25	Loss	Loss
B-25765	\$139	14	3	Clothing	Stole	10.07194245	Profit	Profit
B-25775	\$50	-17	2	Clothing	Stole	-34	Loss	Loss
B-25783	\$25	-11	1	Clothing	Stole	-44	Loss	Loss
B-25788	\$12	3	1	Clothing	Stole	25	Profit	Profit
B-25792	\$74	-25	3	Clothing	Stole	-33.78378378	Loss	Loss
B-25807	\$16	6	1	Clothing	Stole	37.5	Profit	Profit
B-25815	\$35	14	2	Clothing	Stole	40	Profit	Profit
B-25816	\$391	113	8	Clothing	Stole	28.90025575	Profit	Profit
B-25821	\$60	21	4	Clothing	Stole	35	Profit	Profit
B-25834	\$16	5	1	Clothing	Stole	31.25	Profit	Profit
B-25837	\$263	50	5	Clothing	Stole	19.01140684	Profit	Profit

Table: Order Details (500 rows) Column: Profit Status 2 (3 distinct values)

Type here to search

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Merging Data (Joins):

Merge the "List of Orders" and "Order Details" tables into a new single table named "Orders Data" based on the "Order ID" relationship.

The screenshot shows the Microsoft Power BI Desktop interface. The 'Queries' pane on the left lists 'List of Orders', 'Order Details', 'Sales target', 'Orders Data', 'Order Details (Duplicate)', and 'Sales target (Duplicate)'. The 'Orders Data' query is selected. The main view displays a table with the following columns: Order ID, Order Date, CustomerName, State, City, Location, and Order Detail. The table contains 28 rows of data, representing a merge of the 'List of Orders' and 'Order Details' tables based on the 'Order ID' relationship. The 'Properties' pane on the right shows the 'Name' as 'Orders Data' and the 'Applied Steps' as 'Source' and 'Removed Duplicates'. The status bar at the bottom indicates '7 COLUMNS, 501 ROWS' and 'Column profiling based on top 1000 rows'.

Order ID	Order Date	CustomerName	State	City	Location	Order Detail
1	4/1/2018	Bharat	Gujarat	Ahmedabad	Gujarat,Ahmedabad	Table
2	4/1/2018	Pearl	Maharashtra	Pune	Maharashtra,Pune	Table
3	4/1/2018	Jahan	Madhya Pradesh	Bhopal	Madhya Pradesh,Bhopal	Table
4	4/1/2018	Divsha	Rajasthan	Jaipur	Rajasthan,Jaipur	Table
5	4/5/2018	Kasheen	West Bengal	Kolkata	West Bengal,Kolkata	Table
6	4/6/2018	Hazel	Karnataka	Bangalore	Karnataka,Bangalore	Table
7	4/6/2018	Sonakshi	Jammu and Kashmir	Kashmir	Jammu and Kashmir,Kashmir	Table
8	4/8/2018	Aarushi	Tamil Nadu	Chennai	Tamil Nadu,Chennai	Table
9	4/9/2018	Iltesh	Uttar Pradesh	Lucknow	Uttar Pradesh,Lucknow	Table
10	4/9/2018	Yogesh	Bihar	Patna	Bihar,Patna	Table
11	4/11/2018	Anita	Kerala	Thiruvananthapuram	Kerala,Thiruvananthapuram	Table
12	4/12/2018	Shrichand	Punjab	Chandigarh	Punjab,Chandigarh	Table
13	4/12/2018	Mukesh	Haryana	Chandigarh	Haryana,Chandigarh	Table
14	4/13/2018	Vandana	Himachal Pradesh	Simla	Himachal Pradesh,Simla	Table
15	4/15/2018	Bhavna	Sikkim	Gangtok	Sikkim,Gangtok	Table
16	4/15/2018	Kanak	Goa	Goa	Goa,Goa	Table
17	4/17/2018	Sagar	Nagaland	Kohima	Nagaland,Kohima	Table
18	4/18/2018	Manju	Andhra Pradesh	Hyderabad	Andhra Pradesh,Hyderabad	Table
19	4/18/2018	Ramesh	Gujarat	Ahmedabad	Gujarat,Ahmedabad	Table
20	4/20/2018	Sarita	Maharashtra	Pune	Maharashtra,Pune	Table
21	4/20/2018	Deepak	Madhya Pradesh	Bhopal	Madhya Pradesh,Bhopal	Table
22	4/22/2018	Monisha	Rajasthan	Jaipur	Rajasthan,Jaipur	Table
23	4/22/2018	Atharv	West Bengal	Kolkata	West Bengal,Kolkata	Table
24	4/22/2018	Vini	Karnataka	Bangalore	Karnataka,Bangalore	Table
25	4/23/2018	Pinky	Jammu and Kashmir	Kashmir	Jammu and Kashmir,Kashmir	Table
26	4/23/2018	Bhishm	Maharashtra	Mumbai	Maharashtra,Mumbai	Table
27	4/23/2018	Hitika	Madhya Pradesh	Indore	Madhya Pradesh,Indore	Table
28	4/24/2018	Devika	Madhya Pradesh	Indore	Madhya Pradesh,Indore	Table

Handling Missing Data & Duplicate Data:

Identify missing values in the data and determine a strategy to address them.

Check for duplicate rows and define a strategy to handle duplicates.

Assignment 1 Power BI (Power BI Assignment 1 - Data Transformation, Data Modeling)

File Home Transform Add Column View Tools Help

Close & Apply New Recent Enter Data Data source settings Data Sources Manage Parameters Refresh Preview Advanced Editor Choose Remove Columns Keep Remove Rows Reduce Rows Sort Split Column Group By Data Type: Text Use First Row as Headers Replace Values Merge Queries Append Queries Combine Files Combine

Queries [6]

- List of Orders
- Order Details
- Sales target
- Orders Data
- Order Details (Duplicate)
- Sales target (Duplicate)

Table.Distinct(#"Added Custom", {"Order ID"})

Order ID	Amount	Profit	Quantity	Category	Sub-Category	Profit Margin
B-25601	1,275.00	-1148	7	Furniture	Bookcases	
B-25602	168.00	-112	2	Electronics	Phones	
B-25603	1,355.00	-60	5	Clothing	Trousers	
B-25604	65.00	17	2	Clothing	T-shirt	
B-25605	75.00	0	7	Clothing	Saree	
B-25606	87.00	4	2	Clothing	Shirt	
B-25607	50.00	15	4	Clothing	Leggings	
B-25608	1,364.00	-1864	5	Furniture	Tables	
B-25609	485.00	29	4	Electronics	Electronic Games	
B-25610	1,076.00	-38	4	Electronics	Printers	
B-25611	160.00	-59	2	Clothing	Saree	
B-25612	259.00	-55	2	Furniture	Chairs	
B-25613	1,603.00	0	9	Clothing	Saree	
B-25614	494.00	54	4	Furniture	Bookcases	
B-25615	68.00	20	5	Clothing	Hankerchief	
B-25616	42.00	12	5	Clothing	Hankerchief	
B-25617	305.00	-270	5	Electronics	Electronic Games	
B-25618	362.00	127	1	Furniture	Bookcases	
B-25619	353.00	90	8	Clothing	Saree	
B-25620	193.00	46	1	Electronics	Printers	
B-25621	233.00	-10	5	Electronics	Electronic Games	
B-25622	534.00	0	3	Clothing	Saree	
B-25623	53.00	1	4	Clothing	Stole	
B-25624	26.00	12	3	Clothing	Hankerchief	
B-25625	97.00	29	2	Clothing	Hankerchief	
B-25626	46.00	-14	1	Electronics	Phones	
B-25627	55.00	-39	4	Clothing	Stole	
B-25628	42.00	12	5	Clothing	Hankerchief	

7 COLUMNS, 500 ROWS Column profiling based on top 1000 rows

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Sorting and Filtering Data:

In the 'Orders Data' table, utilize sorting and filtering techniques on columns like Order Date, State or Category to analyze data based on specific criteria: ♦ Sort the orders by Order Date in descending order to analyze recent trends. ♦ Filter the orders to focus only on a specific state (e.g., Tamil Nadu) for regional analysis.

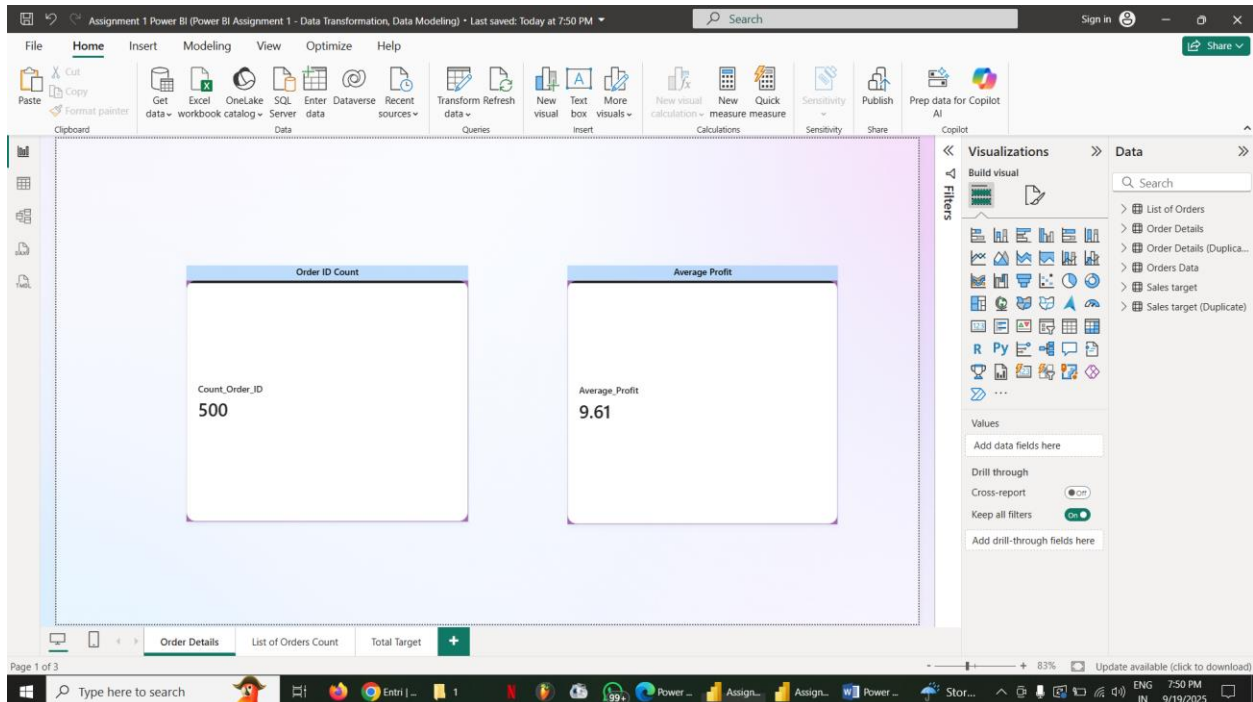
The screenshot displays the Microsoft Power BI Desktop interface. The main window shows a table named 'Orders Data' with the following columns: Order ID, Order Date, CustomerName, State, City, and Location. The data is sorted by Order Date in descending order. The table contains 8 rows of data.

Order ID	Order Date	CustomerName	State	City	Location
B-26081	Friday, March 22, 2019	Aarushi	Tamil Nadu	Chennai	Tamil Nadu,Chennai
B-26018	Thursday, February 14, 2019	Aarushi	Tamil Nadu	Chennai	Tamil Nadu,Chennai
B-26008	Saturday, February 9, 2019	Kalyani	Tamil Nadu	Chennai	Tamil Nadu,Chennai
B-25860	Thursday, November 15, 2018	Akhay	Tamil Nadu	Chennai	Tamil Nadu,Chennai
B-25788	Friday, September 21, 2018	Dinesh	Tamil Nadu	Chennai	Tamil Nadu,Chennai
B-25716	Wednesday, July 11, 2018	Surabhi	Tamil Nadu	Chennai	Tamil Nadu,Chennai
B-25698	Saturday, June 23, 2018	Amisha	Tamil Nadu	Chennai	Tamil Nadu,Chennai
B-25608	Sunday, April 8, 2018	Aarushi	Tamil Nadu	Chennai	Tamil Nadu,Chennai

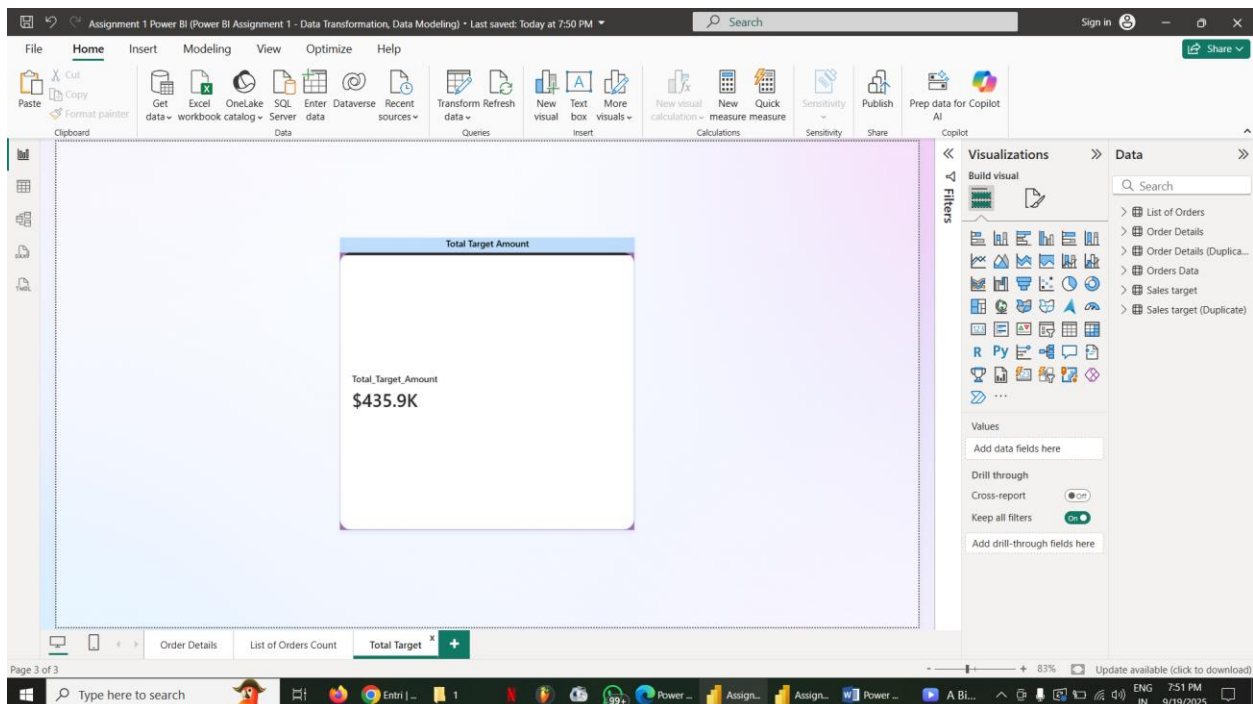
The interface also shows a 'Table tools' ribbon with options like 'Manage relationships', 'New measure', 'Quick measure', 'New column', 'New table', 'Mark as date table', and 'Calendars'. A 'Data' pane on the right lists the data sources: List of Orders, Order Details, Order Details (Duplicate), Orders Data, Sales target, and Sales target (Duplicate). The 'Orders Data' source is selected.

Grouping and Aggregating Data:

Duplicate the “Order Details” table and calculate the count of each Order ID, average profit by Category or total amount by Sub-Category.

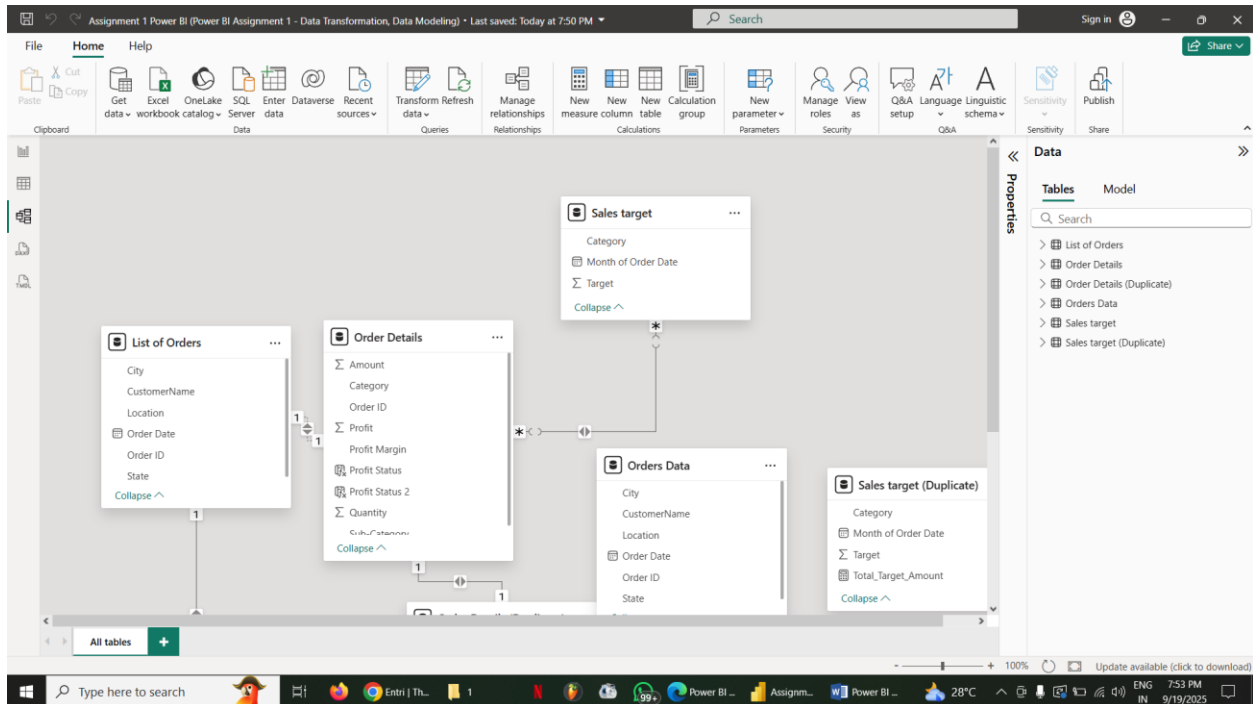


Duplicate the “Sales Target” table and aggregate the total target amount by Month of Order Date.



Data Modeling:

Establish a relationship between the “List of Orders” and “Order Details” tables using the ‘Order ID’ column.



Build a relationship between the “Order Details” and “Sales Target” tables based on the ‘Category’ column. Click "Manage relationships" and ensure this relationship is active.

Assignment 1 Power BI (Power BI Assignment 1 - Data Transformation, Data Modeling) • Last saved: Today at 7:50 PM

File Home Help

Clipboard Get data Excel OneLake SQL Server Enter data Datasource Recent sources Transform Refresh data Queries Manage relationships Relationships New measure column Calculations New table Calculation group Parameters New parameter View as Q&A Language Linguistic schema Q&A Sensitivity Publish

Order Details

- Amount
- Category
- Order ID
- Profit
- Profit Margin
- Profit Status
- Profit Status 2
- Quantity
- Collapse ^

Sales target

- Category
- Month of Order Date
- Target
- Collapse ^

Sales target (Duplicate)

- Category
- Month of Order Date
- Target
- Total_Target_Amount
- Collapse ^

Properties

Tables Model

Search

- List of Orders
- Order Details
- Order Details (Duplicate)
- Orders Data
- Sales target
- Sales target (Duplicate)

All tables +

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