

Power BI Assignment 1 – Data Transformation & Data Modeling

Import Data:

Import

List of Orders.csv

Order Details.csv

Sales target.csv

Query Settings

PROPERTIES

Name

List of Orders

APPLIED STEPS

Source

Changed Type

Order ID	Order Date	CustomerName	State	City
B-25601	01-04-2018	Bharat	Gujarat	Ahmedabad
B-25602	01-04-2018	Pearl	Maharashtra	Pune
B-25603	03-04-2018	Jahan	Madhya Pradesh	Bhopal
B-25604	03-04-2018	Divsha	Rajasthan	Jaipur
B-25605	05-04-2018	Kasheen	West Bengal	Kolkata
B-25606	06-04-2018	Hazel	Karnataka	Bangalore
B-25607	06-04-2018	Sonakshi	Jammu and Kashmir	Kashmir
B-25608	08-04-2018	Aarushi	Tamil Nadu	Chennai
B-25609	09-04-2018	Jitesh	Uttar Pradesh	Lucknow
B-25610	09-04-2018	Yogesh	Bihar	Patna
B-25611	11-04-2018	Anita	Kerala	Thiruvananthapuram
B-25612	12-04-2018	Shrichand	Punjab	Chandigarh
B-25613	12-04-2018	Mukesh	Haryana	Chandigarh
B-25614	13-04-2018	Vandana	Himachal Pradesh	Simla
B-25615	15-04-2018	Bhavna	Sikkim	Gangtok
B-25616	15-04-2018	Kanak	Goa	Goa
B-25617	17-04-2018	Sagar	Nagaland	Kohima
B-25618	18-04-2018	Manju	Andhra Pradesh	Hyderabad
B-25619	18-04-2018	Ramesh	Gujarat	Ahmedabad
B-25620	20-04-2018	Sarita	Maharashtra	Pune
B-25621	20-04-2018	Deepak	Madhya Pradesh	Bhopal
B-25622	22-04-2018	Monisha	Rajasthan	Jaipur
B-25623	22-04-2018	Atharv	West Bengal	Kolkata
B-25624	22-04-2018	Vini	Karnataka	Bangalore
B-25625	23-04-2018	Pinky	Jammu and Kashmir	Kashmir
B-25626	23-04-2018	Bhishm	Maharashtra	Mumbai
B-25627	23-04-2018	Hitika	Madhya Pradesh	Indore
B-25628	24-04-2018	Pooja	Bihar	Patna
B-25629	24-04-2018	Hemanit	Kerala	Thiruvananthapuram

5 COLUMNS, 561 ROWS Column profiling based on top 1000 rows

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Data Transformation:

Restrict the "List of Orders" table to only the first 500 row

The screenshot displays the Power Query Editor interface. The main area shows a table with 5 columns: Order ID, Order Date, CustomerName, State, and City. The table contains 500 rows of data. The 'Applied Steps' pane on the right indicates that the 'Kept First Rows' step has been applied to the 'List of Orders' source.

Queries [3]

Table.FirstN(#"Changed Type1",500)

	Order ID	Order Date	CustomerName	State	City
1	B-25601	01-04-2018	Bharat	Gujarat	Ahmedabad
2	B-25602	01-04-2018	Pearl	Maharashtra	Pune
3	B-25603	03-04-2018	Jahan	Madhya Pradesh	Bhopal
4	B-25604	03-04-2018	Divsha	Rajasthan	Jaipur
5	B-25605	05-04-2018	Kasheen	West Bengal	Kolkata
6	B-25606	06-04-2018	Hazel	Karnataka	Bangalore
7	B-25607	06-04-2018	Sonakshi	Jammu and Kashmir	Kashmir
8	B-25608	08-04-2018	Aarushi	Tamil Nadu	Chennai
9	B-25609	09-04-2018	Jitesh	Uttar Pradesh	Lucknow
10	B-25610	09-04-2018	Yogesh	Bihar	Patna
11	B-25611	11-04-2018	Anita	Kerala	Thiruvananthapuram
12	B-25612	12-04-2018	Shrichand	Punjab	Chandigarh
13	B-25613	12-04-2018	Mukesh	Haryana	Chandigarh
14	B-25614	13-04-2018	Vandana	Himachal Pradesh	Simla
15	B-25615	15-04-2018	Bhavna	Sikkim	Gangtok
16	B-25616	15-04-2018	Kanak	Goa	Goa
17	B-25617	17-04-2018	Sagar	Nagaland	Kohima
18	B-25618	18-04-2018	Manju	Andhra Pradesh	Hyderabad
19	B-25619	18-04-2018	Ramesh	Gujarat	Ahmedabad
20	B-25620	20-04-2018	Sarita	Maharashtra	Pune
21	B-25621	20-04-2018	Deepak	Madhya Pradesh	Bhopal
22	B-25622	22-04-2018	Monisha	Rajasthan	Jaipur
23	B-25623	22-04-2018	Atharv	West Bengal	Kolkata
24	B-25624	22-04-2018	Vini	Karnataka	Bangalore
25	B-25625	23-04-2018	Pinky	Jammu and Kashmir	Kashmir
26	B-25626	23-04-2018	Bhishm	Maharashtra	Mumbai
27	B-25627	23-04-2018	Hitika	Madhya Pradesh	Indore
28	B-25628	24-04-2018	Pooja	Bihar	Patna
29	B-25629	24-04-2018	Hemant	Kerala	Thiruvananthapuram
30	B-25630	24-04-2018	Sahil	Punjab	Chandigarh

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

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

Power Query Editor interface showing the transformation of the "List of Orders" table. The formula bar displays the transformation: `= Table.TransformColumnTypes(#"Kept First Rows", {{"Order Date", type date}}, "en-IN")`.

The table data is as follows:

Order ID	Order Date	CustomerName	State	City
B-25601	4/1/2018	Bharat	Gujarat	Ahmedabad
B-25602	4/1/2018	Pearl	Maharashtra	Pune
B-25603	4/3/2018	Iahan	Madhya Pradesh	Bhopal
B-25604	4/3/2018	Divsha	Rajasthan	Jaipur
B-25605	4/5/2018	Kasheen	West Bengal	Kolkata
B-25606	4/6/2018	Hazel	Karnataka	Bangalore
B-25607	4/6/2018	Sonakshi	Jammu and Kashmir	Kashmir
B-25608	4/8/2018	Aarushi	Tamil Nadu	Chennai
B-25609	4/9/2018	Jitesh	Uttar Pradesh	Lucknow
B-25610	4/9/2018	Yogesh	Bihar	Patna
B-25611	4/11/2018	Anita	Kerala	Thiruvananthapuram
B-25612	4/12/2018	Shrichand	Punjab	Chandigarh
B-25613	4/12/2018	Mukesh	Haryana	Chandigarh
B-25614	4/13/2018	Vandana	Himachal Pradesh	Simla
B-25615	4/15/2018	Bhavna	Sikkim	Gangtok
B-25616	4/15/2018	Kanak	Goa	Goa
B-25617	4/17/2018	Sagar	Nagaland	Kohima
B-25618	4/18/2018	Manju	Andhra Pradesh	Hyderabad
B-25619	4/18/2018	Ramesh	Gujarat	Ahmedabad
B-25620	4/20/2018	Sarita	Maharashtra	Pune
B-25621	4/20/2018	Deepak	Madhya Pradesh	Bhopal
B-25622	4/22/2018	Monisha	Rajasthan	Jaipur
B-25623	4/22/2018	Attharv	West Bengal	Kolkata
B-25624	4/22/2018	Vini	Karnataka	Bangalore
B-25625	4/23/2018	Pinky	Jammu and Kashmir	Kashmir
B-25626	4/23/2018	Bhishm	Maharashtra	Mumbai
B-25627	4/23/2018	Hitika	Madhya Pradesh	Indore
B-25628	4/24/2018	Pooja	Bihar	Patna
B-25629	4/24/2018	Hemant	Kerala	Thiruvananthapuram
B-25630	4/24/2018	Sahil	Punjab	Chandigarh

The right sidebar shows the "Query Settings" for "List of Orders", including the "APPLIED STEPS" list: Source, Changed Type, Promoted Headers, Changed Type1, Kept First Rows, and Changed Type with Locale.

5 COLUMNS, 500 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’

Power Query Editor interface showing a table with 3 columns and 36 rows. The columns are: Month of Order Date, Category, and Target. The data is transformed using the formula: `Table.TransformColumnTypes(#"Promoted Headers",{{"Month of Order Date", type date}, {"Category", type text}, {"Target", Currency.Type}})`.

	Month of Order Date	Category	Target
1	4/18/2026	Furniture	10,400.00
2	5/18/2026	Furniture	10,500.00
3	6/18/2026	Furniture	10,600.00
4	7/18/2026	Furniture	10,800.00
5	8/18/2026	Furniture	10,900.00
6	9/18/2026	Furniture	11,000.00
7	10/18/2026	Furniture	11,100.00
8	11/18/2026	Furniture	11,300.00
9	12/18/2026	Furniture	11,400.00
10	1/19/2026	Furniture	11,500.00
11	2/19/2026	Furniture	11,600.00
12	3/19/2026	Furniture	11,800.00
13	4/18/2026	Clothing	12,000.00
14	5/18/2026	Clothing	12,000.00
15	6/18/2026	Clothing	12,000.00
16	7/18/2026	Clothing	14,000.00
17	8/18/2026	Clothing	14,000.00
18	9/18/2026	Clothing	14,000.00
19	10/18/2026	Clothing	16,000.00
20	11/18/2026	Clothing	16,000.00
21	12/18/2026	Clothing	16,000.00
22	1/19/2026	Clothing	16,000.00
23	2/19/2026	Clothing	16,000.00
24	3/19/2026	Clothing	16,000.00
25	4/18/2026	Electronics	9,000.00
26	5/18/2026	Electronics	9,000.00
27	6/18/2026	Electronics	9,000.00
28	7/18/2026	Electronics	9,000.00
29	8/18/2026	Electronics	9,000.00
30	9/18/2026	Electronics	9,000.00

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

Power Query Editor interface showing a table with 6 columns and 999+ rows. The columns are: Order ID, Amount, Profit, Quantity, Category, and Sub-Category. The data is transformed using the formula: `Table.TransformColumnTypes(#"Promoted Headers",{{"Order ID", type text}, {"Amount", Currency.Type}, {"Profit", Int64.Type}, {"Quantity", type text}, {"Category", type text}, {"Sub-Category", type text}})`.

	Order ID	Amount	Profit	Quantity	Category	Sub-Category
1	B-25601	1,275.00	-1148	7	Furniture	Bookcases
2	B-25601	66.00	-12	5	Clothing	Stole
3	B-25601	8.00	-2	3	Clothing	Hankerchief
4	B-25601	80.00	-56	4	Electronics	Electronic Games
5	B-25602	168.00	-111	2	Electronics	Phones
6	B-25602	424.00	-272	5	Electronics	Phones
7	B-25602	2,617.00	1151	4	Electronics	Phones
8	B-25602	561.00	212	3	Clothing	Saree
9	B-25602	119.00	-5	8	Clothing	Saree
10	B-25603	1,355.00	-60	5	Clothing	Trousers
11	B-25603	24.00	-30	1	Furniture	Chairs
12	B-25603	193.00	-166	3	Clothing	Saree
13	B-25603	180.00	5	3	Clothing	Trousers
14	B-25603	116.00	16	4	Clothing	Stole
15	B-25603	107.00	36	6	Clothing	Stole
16	B-25603	12.00	1	2	Clothing	Hankerchief
17	B-25603	38.00	18	1	Clothing	Kurti
18	B-25604	65.00	17	2	Clothing	T-shirt
19	B-25604	157.00	5	9	Clothing	Saree
20	B-25605	75.00	0	7	Clothing	Saree
21	B-25606	87.00	4	2	Clothing	Shirt
22	B-25607	50.00	15	4	Clothing	Leggings
23	B-25608	1,364.00	-1864	5	Furniture	Tables
24	B-25608	476.00	0	3	Furniture	Chairs
25	B-25608	257.00	23	5	Clothing	Hankerchief
26	B-25608	856.00	385	6	Electronics	Printers
27	B-25609	485.00	29	4	Electronics	Electronic Games
28	B-25609	25.00	-5	4	Clothing	Saree
29	B-25610	1,076.00	-38	4	Electronics	Printers
30	B-25610	107.00	-54	4	Clothing	Stole

6 COLUMNS, 999+ ROWS Column profiling based on top 1000 rows

Format the "CustomerName" column into proper case, ensuring consistent capitalization for each word

Power Query Editor interface showing a table with columns: Order ID, Order Date, CustomerName, State, and City. The CustomerName column is highlighted, and the formula bar shows the transformation: `Table.TransformColumns(#"Changed Type with Locale",{{"CustomerName", Text.Proper, type text}})`.

The table data is as follows:

	Order ID	Order Date	CustomerName	State	City
1	B-25601	4/1/2018	Bharat	Gujarat	Ahmedabad
2	B-25602	4/1/2018	Pearl	Maharashtra	Pune
3	B-25603	4/3/2018	Jahan	Madhya Pradesh	Bhopal
4	B-25604	4/3/2018	Divsha	Rajasthan	Jaipur
5	B-25605	4/5/2018	Kasheen	West Bengal	Kolkata
6	B-25606	4/6/2018	Hazel	Karnataka	Bangalore
7	B-25607	4/6/2018	Sonakshi	Jammu and Kashmir	Kashmir
8	B-25608	4/8/2018	Aarushi	Tamil Nadu	Chennai
9	B-25609	4/9/2018	Iltesh	Uttar Pradesh	Lucknow
10	B-25610	4/9/2018	Yogesh	Bihar	Patna
11	B-25611	4/11/2018	Anita	Kerala	Thiruvananthapuram
12	B-25612	4/12/2018	Shrichand	Punjab	Chandigarh
13	B-25613	4/12/2018	Mukesh	Haryana	Chandigarh
14	B-25614	4/13/2018	Vandana	Himachal Pradesh	Simla
15	B-25615	4/15/2018	Bhavna	Sikkim	Gangtok
16	B-25616	4/15/2018	Kanak	Goa	Goa
17	B-25617	4/17/2018	Sagar	Nagaland	Kohima
18	B-25618	4/18/2018	Manju	Andhra Pradesh	Hyderabad
19	B-25619	4/18/2018	Ramesh	Gujarat	Ahmedabad
20	B-25620	4/20/2018	Sarita	Maharashtra	Pune
21	B-25621	4/20/2018	Deepak	Madhya Pradesh	Bhopal
22	B-25622	4/22/2018	Monisha	Rajasthan	Jaipur
23	B-25623	4/22/2018	Atharv	West Bengal	Kolkata
24	B-25624	4/22/2018	Vini	Karnataka	Bangalore
25	B-25625	4/23/2018	Pinky	Jammu and Kashmir	Kashmir
26	B-25626	4/23/2018	Bhishm	Maharashtra	Mumbai
27	B-25627	4/23/2018	Hitika	Madhya Pradesh	Indore
28	B-25628	4/24/2018	Pooja	Bihar	Patna
29	B-25629	4/24/2018	Hemant	Kerala	Thiruvananthapuram
30	B-25630	4/24/2018	Sahil	Punjab	Chandigarh

Query Settings: Name: List of Orders

APPLIED STEPS:

- Source
- Changed Type
- Promoted Headers
- Changed Type1
- Kept First Rows
- Changed Type with Locale
- Capitalized Each Word

5 COLUMNS, 500 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'

Untitled - Power Query Editor

File Home Transform Add Column View Tools Help

Column From Custom Invoke Custom Examples Column Function General

Conditional Column Index Column Duplicate Column

Format Merge Columns Extract Parse

Statistics Standard Scientific Rounding Information

Date Time Duration

From Text From Number From Date & Time

Queries [3]

List of Orders Sales target Order Details

Order ID Order Date CustomerName State City Location

1 B-25601 4/1/2018 Bharat Gujarat Ahmedabad Ahmedabad,Gujarat

2 B-25602 4/1/2018 Pearl Maharashtra Pune Pune,Maharashtra

3 B-25603 4/3/2018 Jahan Madhya Pradesh Bhopal Bhopal,Madhya Pradesh

4 B-25604 4/3/2018 Divsha Rajasthan Jaipur Jaipur,Rajasthan

5 B-25605 4/5/2018 Kasheen West Bengal Kolkata Kolkata,West Bengal

6 B-25606 4/6/2018 Hazel Karnataka Bangalore Bangalore,Karnataka

7 B-25607 4/6/2018 Sonakshi Jammu and Kashmir Kashmir Kashmir,Jammu and Kashmir

8 B-25608 4/8/2018 Aarushi Tamil Nadu Chennai Chennai,Tamil Nadu

9 B-25609 4/9/2018 Jitesh Uttar Pradesh Lucknow Lucknow,Uttar Pradesh

10 B-25610 4/9/2018 Yogesh Bihar Patna Patna,Bihar

11 B-25611 4/11/2018 Anita Kerala Thiruvananthapuram Thiruvananthapuram,Kerala

12 B-25612 4/12/2018 Shrichand Punjab Chandigarh Chandigarh,Punjab

13 B-25613 4/12/2018 Mukesh Haryana Chandigarh Chandigarh,Haryana

14 B-25614 4/13/2018 Vandana Himachal Pradesh Simla Simla,Himachal Pradesh

15 B-25615 4/15/2018 Bhavna Sikkim Gangtok Gangtok,Sikkim

16 B-25616 4/15/2018 Kanak Goa Goa Goa,Goa

17 B-25617 4/17/2018 Sagar Nagaland Kohima Kohima,Nagaland

18 B-25618 4/18/2018 Manju Andhra Pradesh Hyderabad Hyderabad,Andhra Pradesh

19 B-25619 4/18/2018 Ramesh Gujarat Ahmedabad Ahmedabad,Gujarat

20 B-25620 4/20/2018 Sarita Maharashtra Pune Pune,Maharashtra

21 B-25621 4/20/2018 Deepak Madhya Pradesh Bhopal Bhopal,Madhya Pradesh

22 B-25622 4/22/2018 Monisha Rajasthan Jaipur Jaipur,Rajasthan

23 B-25623 4/22/2018 Atharv West Bengal Kolkata Kolkata,West Bengal

24 B-25624 4/22/2018 Vini Karnataka Bangalore Bangalore,Karnataka

25 B-25625 4/23/2018 Pinky Jammu and Kashmir Kashmir Kashmir,Jammu and Kashmir

26 B-25626 4/23/2018 Bhishm Maharashtra Mumbai Mumbai,Maharashtra

27 B-25627 4/23/2018 Hitika Madhya Pradesh Indore Indore,Madhya Pradesh

28 B-25628 4/24/2018 Pooja Bihar Patna Patna,Bihar

29 B-25629 4/24/2018 Hemant Kerala Thiruvananthapuram Thiruvananthapuram,Kerala

30 B-25630 4/24/2018 Sahil Punjab Chandigarh Chandigarh,Punjab

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

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Query Settings

PROPERTIES

Name

List of Orders

All Properties

APPLIED STEPS

Source

Changed Type

Promoted Headers

Changed Type1

Kept First Rows

Changed Type with Locale

Capitalized Each Word

Inserted Merged Column

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

Untitled - Power Query Editor

File Home Transform Add Column View Tools Help

Group By Use First Row as Headers Count Rows Table

Transpose Reverse Rows Detect Data Type Rename Pivot Column Convert to List

Replace Values Fill Move Parse

Split Column Format Extract

Merge Columns

Statistics Standard Scientific

Trigonometry Rounding Information

Date Time Duration

R Py Run R script Run Python script

Queries [3]

List of Orders Sales target Order Details

fx = Table.TransformColumnTypes(#"Added Custom",{{"Profit Margin", Percentage.Type}})

	\$ Amount	% Profit	% Quantity	Category	Sub-Category	% Profit Margin
1	1,275.00	-1148	7	Furniture	Bookcases	-90.04%
2	66.00	-12	5	Clothing	Stole	-18.18%
3	8.00	-2	3	Clothing	Hankerchief	-25.00%
4	80.00	-56	4	Electronics	Electronic Games	-70.00%
5	168.00	-111	2	Electronics	Phones	-66.07%
6	424.00	-272	5	Electronics	Phones	-64.15%
7	2,617.00	1151	4	Electronics	Phones	43.98%
8	561.00	212	3	Clothing	Saree	37.79%
9	119.00	-5	8	Clothing	Saree	-4.20%
10	1,355.00	-60	5	Clothing	Trousers	-4.43%
11	24.00	-30	1	Furniture	Chairs	-125.00%
12	193.00	-166	3	Clothing	Saree	-86.01%
13	180.00	5	3	Clothing	Trousers	2.78%
14	116.00	16	4	Clothing	Stole	13.79%
15	107.00	36	6	Clothing	Stole	33.64%
16	12.00	1	2	Clothing	Hankerchief	8.33%
17	38.00	18	1	Clothing	Kurti	47.37%
18	65.00	17	2	Clothing	T-shirt	26.15%
19	157.00	5	9	Clothing	Saree	3.18%
20	75.00	0	7	Clothing	Saree	0.00%
21	87.00	4	2	Clothing	Shirt	4.60%
22	50.00	15	4	Clothing	Leggings	30.00%
23	1,364.00	-1864	5	Furniture	Tables	-136.66%
24	476.00	0	3	Furniture	Chairs	0.00%
25	257.00	23	5	Clothing	Hankerchief	8.95%
26	856.00	385	6	Electronics	Printers	44.98%
27	485.00	29	4	Electronics	Electronic Games	5.98%
28	25.00	-5	4	Clothing	Saree	-20.00%
29	1,076.00	-38	4	Electronics	Printers	-3.53%
30	407.00	64	4	Clothing	Stole	15.70%

7 COLUMNS, 999+ ROWS Column profiling based on top 1000 rows

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Query Settings

PROPERTIES

Name

Order Details

All Properties

APPLIED STEPS

Source

Promoted Headers

Changed Type

Added Custom

Changed Type1

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"

Untitled - Power Query Editor

File Home Transform Add Column View Tools Help

Column From Examples Custom Invoke Custom Function General

Conditional Column Index Column Duplicate Column

Format Merge Columns Extract Parse From Text

Statistics Standard Scientific From Number

Trigonometry Rounding Information

Date Time Duration From Date & Time

Queries [3]

List of Orders Sales target Order Details

fx = Table.AddColumn(#"Changed Type1", "Profile Status", each if [Profit] < 0 then "Loss" else if [Profit] = 0 then "Break-Even" else

int	Profit	Quantity	Category	Sub-Category	% Profit Margin	Profile Status
1	1,275.00	-1148	7 Furniture	Bookcases	-90.04%	Loss
2	66.00	-12	5 Clothing	Stole	-18.18%	Loss
3	8.00	-2	3 Clothing	Hankerchief	-25.00%	Loss
4	80.00	-56	4 Electronics	Electronic Games	-70.00%	Loss
5	168.00	-111	2 Electronics	Phones	-66.07%	Loss
6	424.00	-272	5 Electronics	Phones	-64.15%	Loss
7	2,617.00	1151	4 Electronics	Phones	43.98%	Profit
8	561.00	212	3 Clothing	Saree	37.79%	Profit
9	119.00	-5	8 Clothing	Saree	-4.20%	Loss
10	1,355.00	-60	5 Clothing	Trousers	-4.43%	Loss
11	24.00	-30	1 Furniture	Chairs	-125.00%	Loss
12	193.00	-166	3 Clothing	Saree	-86.01%	Loss
13	180.00	5	3 Clothing	Trousers	2.78%	Profit
14	116.00	16	4 Clothing	Stole	13.79%	Profit
15	107.00	36	6 Clothing	Stole	33.64%	Profit
16	12.00	1	2 Clothing	Hankerchief	8.33%	Profit
17	38.00	18	1 Clothing	Kurti	47.37%	Profit
18	65.00	17	2 Clothing	T-shirt	26.15%	Profit
19	157.00	5	9 Clothing	Saree	3.18%	Profit
20	75.00	0	7 Clothing	Saree	0.00%	Break-Even
21	87.00	4	2 Clothing	Shirt	4.60%	Profit
22	50.00	15	4 Clothing	Leggings	30.00%	Profit
23	1,364.00	-1864	5 Furniture	Tables	-136.66%	Loss
24	476.00	0	3 Furniture	Chairs	0.00%	Break-Even
25	257.00	23	5 Clothing	Hankerchief	8.95%	Profit
26	856.00	385	6 Electronics	Printers	44.98%	Profit
27	485.00	29	4 Electronics	Electronic Games	5.98%	Profit
28	25.00	-5	4 Clothing	Saree	-20.00%	Loss
29	1,076.00	-38	4 Electronics	Printers	-3.53%	Loss
30	107.00	54	2 Clothing	Stole	60.47%	Profit

8 COLUMNS, 999+ ROWS Column profiling based on top 1000 rows

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Query Settings

PROPERTIES

Name Order Details

APPLIED STEPS

Source Promoted Headers Changed Type Added Custom Changed Type1 Added Conditional Column

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

Untitled - Power Query Editor

FileHomeTransformAdd ColumnViewToolsHelp

Close & Apply

New Source

Recent Sources

Enter Data

Data source settings

Data Sources

Manage Parameters

Export query results

Refresh Preview

Properties

Advanced Editor

Query

Choose Columns

Remove Columns

Keep Rows

Remove Rows

Sort

Split Column

Group By

Replace Values

Transform

Merge Queries

Append Queries

Combine Files

Combine

Data Type: Any

Use First Row as Headers

Table.ExpandTableColumn(Source, "Order Details", {"Amount", "Profit", "Quantity", "Category", "Sub-Category", "Profit Margin", "Profile"

Queries [4]

List of OrdersSales targetOrder DetailsOrders Data

	Order ID	Order Date	CustomerName	State	City	Location	Order Date
1	B-25601	4/1/2018	Bharat	Gujarat	Ahmedabad	Ahmedabad,Gujarat	
2	B-25601	4/1/2018	Bharat	Gujarat	Ahmedabad	Ahmedabad,Gujarat	
3	B-25601	4/1/2018	Bharat	Gujarat	Ahmedabad	Ahmedabad,Gujarat	
4	B-25601	4/1/2018	Bharat	Gujarat	Ahmedabad	Ahmedabad,Gujarat	
5	B-25602	4/1/2018	Pearl	Maharashtra	Pune	Pune,Maharashtra	
6	B-25602	4/1/2018	Pearl	Maharashtra	Pune	Pune,Maharashtra	
7	B-25602	4/1/2018	Pearl	Maharashtra	Pune	Pune,Maharashtra	
8	B-25602	4/1/2018	Pearl	Maharashtra	Pune	Pune,Maharashtra	
9	B-25602	4/1/2018	Pearl	Maharashtra	Pune	Pune,Maharashtra	
10	B-25603	4/3/2018	Jahan	Madhya Pradesh	Bhopal	Bhopal,Madhya Pradesh	
11	B-25603	4/3/2018	Jahan	Madhya Pradesh	Bhopal	Bhopal,Madhya Pradesh	
12	B-25603	4/3/2018	Jahan	Madhya Pradesh	Bhopal	Bhopal,Madhya Pradesh	
13	B-25603	4/3/2018	Jahan	Madhya Pradesh	Bhopal	Bhopal,Madhya Pradesh	
14	B-25603	4/3/2018	Jahan	Madhya Pradesh	Bhopal	Bhopal,Madhya Pradesh	
15	B-25603	4/3/2018	Jahan	Madhya Pradesh	Bhopal	Bhopal,Madhya Pradesh	
16	B-25603	4/3/2018	Jahan	Madhya Pradesh	Bhopal	Bhopal,Madhya Pradesh	
17	B-25603	4/3/2018	Jahan	Madhya Pradesh	Bhopal	Bhopal,Madhya Pradesh	
18	B-25604	4/3/2018	Divsha	Rajasthan	Jaipur	Jaipur,Rajasthan	
19	B-25604	4/3/2018	Divsha	Rajasthan	Jaipur	Jaipur,Rajasthan	
20	B-25605	4/5/2018	Kasheen	West Bengal	Kolkata	Kolkata,West Bengal	
21	B-25606	4/6/2018	Hazel	Karnataka	Bangalore	Bangalore,Karnataka	
22	B-25607	4/6/2018	Sonakshi	Jammu and Kashmir	Kashmir	Kashmir,Jammu and Kashmir	
23	B-25608	4/8/2018	Aarushi	Tamil Nadu	Chennai	Chennai,Tamil Nadu	
24	B-25608	4/8/2018	Aarushi	Tamil Nadu	Chennai	Chennai,Tamil Nadu	
25	B-25608	4/8/2018	Aarushi	Tamil Nadu	Chennai	Chennai,Tamil Nadu	
26	B-25608	4/8/2018	Aarushi	Tamil Nadu	Chennai	Chennai,Tamil Nadu	
27	B-25609	4/9/2018	Jitesh	Uttar Pradesh	Lucknow	Lucknow,Uttar Pradesh	
28	B-25609	4/9/2018	Jitesh	Uttar Pradesh	Lucknow	Lucknow,Uttar Pradesh	
29	B-25610	4/9/2018	Yogesh	Bihar	Patna	Patna,Bihar	
30	B-25610	4/9/2018	Yogesh	Bihar	Patna	Patna,Bihar	

Query Settings

PROPERTIES

NameOrders Data

All Properties

APPLIED STEPS

SourceExpanded Order Details

13 COLUMNS, 999+ ROWS

Column profiling based on top 1000 rows

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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.

(No empty value check by column quality)

Microsoft Power Query Editor interface showing a data table with columns: Order ID, Order Date, Customer Name, State, City, and Location. The table contains 28 rows of data. The right sidebar shows 'Query Settings' with 'Properties' and 'Applied Steps' sections. The 'Applied Steps' list includes 'Source', 'Changed Type', 'Promoted Headers', 'Changed Type1', 'Kept First Rows', 'Changed Type with Locale', 'Capitalized Each Word', 'Inserted Merged Column', and 'Removed Duplicates'.

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

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 Power Query Editor interface. The main area shows a table with 25 rows and 13 columns. The columns are: Order ID, Order Date, CustomerName, State, City, Location, and Order Date (repeated). The 'State' column is filtered to show only 'Tamil Nadu'. The 'Order Date' column is sorted in descending order. The 'Query Settings' pane on the right shows the 'Properties' tab with the name 'Orders Data' and the 'Applied Steps' list containing 'Source', 'Expanded Order Details', 'Removed Duplicates', 'Sorted Rows', and 'Filtered Rows'.

Order ID	Order Date	CustomerName	State	City	Location	Order Date
1	3/22/2019	Aarushi	Tamil Nadu	Chennai	Chennai, Tamil Nadu	
2	3/22/2019	Aarushi	Tamil Nadu	Chennai	Chennai, Tamil Nadu	
3	3/22/2019	Aarushi	Tamil Nadu	Chennai	Chennai, Tamil Nadu	
4	3/22/2019	Aarushi	Tamil Nadu	Chennai	Chennai, Tamil Nadu	
5	3/22/2019	Aarushi	Tamil Nadu	Chennai	Chennai, Tamil Nadu	
6	3/22/2019	Aarushi	Tamil Nadu	Chennai	Chennai, Tamil Nadu	
7	2/14/2019	Aarushi	Tamil Nadu	Chennai	Chennai, Tamil Nadu	
8	2/14/2019	Aarushi	Tamil Nadu	Chennai	Chennai, Tamil Nadu	
9	2/9/2019	Kalyani	Tamil Nadu	Chennai	Chennai, Tamil Nadu	
10	2/9/2019	Kalyani	Tamil Nadu	Chennai	Chennai, Tamil Nadu	
11	2/9/2019	Kalyani	Tamil Nadu	Chennai	Chennai, Tamil Nadu	
12	2/9/2019	Kalyani	Tamil Nadu	Chennai	Chennai, Tamil Nadu	
13	11/15/2018	Akshay	Tamil Nadu	Chennai	Chennai, Tamil Nadu	
14	9/21/2018	Dinesh	Tamil Nadu	Chennai	Chennai, Tamil Nadu	
15	7/11/2018	Surabhi	Tamil Nadu	Chennai	Chennai, Tamil Nadu	
16	6/23/2018	Amisha	Tamil Nadu	Chennai	Chennai, Tamil Nadu	
17	6/23/2018	Amisha	Tamil Nadu	Chennai	Chennai, Tamil Nadu	
18	6/23/2018	Amisha	Tamil Nadu	Chennai	Chennai, Tamil Nadu	
19	6/23/2018	Amisha	Tamil Nadu	Chennai	Chennai, Tamil Nadu	
20	6/23/2018	Amisha	Tamil Nadu	Chennai	Chennai, Tamil Nadu	
21	6/23/2018	Amisha	Tamil Nadu	Chennai	Chennai, Tamil Nadu	
22	4/8/2018	Aarushi	Tamil Nadu	Chennai	Chennai, Tamil Nadu	
23	4/8/2018	Aarushi	Tamil Nadu	Chennai	Chennai, Tamil Nadu	
24	4/8/2018	Aarushi	Tamil Nadu	Chennai	Chennai, Tamil Nadu	
25	4/8/2018	Aarushi	Tamil Nadu	Chennai	Chennai, Tamil Nadu	

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.

The screenshot shows the Power Query Editor interface. The query is named "Order Details Grouping" and its formula bar contains the M code: `= Table.TransformColumnTypes("#Grouped Rows",{{"Avg By Category", type number}})`. The data table has 4 columns: Sub-Category, Order Count, Avg By Category, and Tot Amt By Sub-Category. The table contains 17 rows of data, including categories like Bookcases, Stole, Hankerchief, Electronic Games, Phones, Saree, Trousers, Chairs, Kurti, T-shirt, Shirt, Leggings, Tables, Printers, Accessories, Furnishings, and Skirt.


Sub-Category	Order Count	Avg By Category	Tot Amt By Sub-Category
1 Bookcases	79	61.87341772	56861
2 Stole	192	13.328125	18546
3 Hankerchief	198	10.5959596	14608
4 Electronic Games	79	-15.64556962	39168
5 Phones	83	26.59036145	46119
6 Saree	210	1.676190476	53511
7 Trousers	39	73	30039
8 Chairs	74	7.797297297	34222
9 Kurti	47	3.85106383	3361
10 T-shirt	77	19.48051948	7382
11 Shirt	69	16.39130435	7555
12 Leggings	53	4.905660377	2106
13 Tables	17	-235.9411765	22614
14 Printers	74	80.59459459	58252
15 Accessories	72	49.43055556	21728
16 Furnishings	73	11.56164384	13484
17 Skirt	64	3.671875	1946







The screenshot shows the Power Query Editor interface. The query is named "Sales target Grouping" and its formula bar contains the M code: `= Table.Group("#Removed Duplicates", {"Month of Order Date"}, {"Target Amt", each List.Sum([Target]), type nullable number}})`. The data table has 2 columns: Month of Order Date and Target Amt. The table contains 12 rows of data, representing months from 4/18/2026 to 3/19/2026.

Month of Order Date	Target Amt
1 4/18/2026	31400
2 5/18/2026	31500
3 6/18/2026	31600
4 7/18/2026	33800
5 8/18/2026	33900
6 9/18/2026	34000
7 10/18/2026	36100
8 11/18/2026	36300
9 12/18/2026	36400
10 1/19/2026	43500
11 2/19/2026	43600
12 3/19/2026	43800

Data



 Search

- >  List of Orders
- >  Order Details
- >  Order Details Grouping
- >  Orders Data
- >  Sales target
- >  Sales target Grouping

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.

