

Power BI Assignment 1 – Data Transformation & Data Modeling

Data Transformation:

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

Table.TransformColumnTypes(#"Promoted Headers",{{"Order ID", type text}, {"Order Date", type date}, {"CustomerName", type text}, {"State", type text}, {"City", type text}})

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

COLUMNS: 500 ROWS Column profiling based on top 1000 rows

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"Order Date" column in the "List of Orders" table is set to data type 'Date'

Table.RenameColumns(#"Changed Type",{{"Order Date", "Date"}})

Order ID	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

COLUMNS: 500 ROWS Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 17:01

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

Group By

Use First Row as Headers

Count Rows

Transpose

Reverse Rows

Data Type: Fixed decimal number

Detect Data Type

Rename

Replace Values

Fill

Pivot Column

Unpivot Columns

Move

Convert to List

Split Column

Format

Parse

Merge Columns

Extract

Parse

Statistics

Standard Scientific

Information

10²

Rounding

Information

Trigonometry

Date

Time

Duration

Run R script

Run Python script

Queries [5]

List of Orders

Order Details

Sales target

Duplicate order details

Duplicate sales target

Table

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	1,864.00	-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

Query Settings

PROPERTIES

Name

Order Details

All Properties

APPLIED STEPS

Source

Promoted Headers

Changed Type

Changed Type1

COLUMNS: 999+ ROWS

Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 17:04

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

Group By

Use First Row as Headers

Count Rows

Transpose

Reverse Rows

Data Type: Fixed decimal number

Detect Data Type

Rename

Replace Values

Fill

Pivot Column

Unpivot Columns

Move

Convert to List

Split Column

Format

Parse

Merge Columns

Extract

Parse

Statistics

Standard Scientific

Information

10²

Rounding

Information

Trigonometry

Date

Time

Duration

Run R script

Run Python script

Queries [5]

List of Orders

Order Details

Sales target

Duplicate order details

Duplicate sales target

Table

Month of Order Date

Category

Target

1	01-04-2018	Furniture	10,400.00
2	01-05-2018	Furniture	10,500.00
3	01-06-2018	Furniture	10,600.00
4	01-07-2018	Furniture	10,800.00
5	01-08-2018	Furniture	10,900.00
6	01-09-2018	Furniture	11,000.00
7	01-10-2018	Furniture	11,100.00
8	01-11-2018	Furniture	11,300.00
9	01-12-2018	Furniture	11,400.00
10	01-01-2019	Furniture	11,500.00
11	01-02-2019	Furniture	11,600.00
12	01-03-2019	Furniture	11,800.00
13	01-04-2018	Clothing	12,000.00
14	01-05-2018	Clothing	12,000.00
15	01-06-2018	Clothing	12,000.00
16	01-07-2018	Clothing	14,000.00
17	01-08-2018	Clothing	14,000.00
18	01-09-2018	Clothing	14,000.00
19	01-10-2018	Clothing	16,000.00
20	01-11-2018	Clothing	16,000.00
21	01-12-2018	Clothing	16,000.00
22	01-01-2019	Clothing	16,000.00
23	01-02-2019	Clothing	16,000.00
24	01-03-2019	Clothing	16,000.00
25	01-04-2018	Electronics	9,000.00
26	01-05-2018	Electronics	9,000.00
27	01-06-2018	Electronics	9,000.00
28	01-07-2018	Electronics	9,000.00

Query Settings

PROPERTIES

Name

Sales target

All Properties

APPLIED STEPS

Source

Promoted Headers

Changed Type

Changed Type1

COLUMNS: 36 ROWS

Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 17:06

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

Table

Any ColumnText ColumnNumber ColumnDate & Time ColumnScripts

Queries [5]

✕

✓

fx

- Table.TransformColumns(#Renamed Columns,{"CustomerName",Text.Property,type text})

Table

Order IDDateCustomerNameStateCity

1B-2560101-04-2018BharatGujaratAhmedabad

2B-2560201-04-2018PearlMaharashtraPune

3B-2560303-04-2018JahanMadhya PradeshBhopal

4B-2560403-04-2018DivshaRajasthanJaipur

5B-2560505-04-2018KasheenWest BengalKolkata

6B-2560606-04-2018HazelKarnatakaBangalore

7B-2560706-04-2018SonakshiJammu and KashmirKashmir

8B-2560808-04-2018AarushiTamil NaduChennai

9B-2560909-04-2018JiteshUttar PradeshLucknow

10B-2561009-04-2018YogeshBiharPatna

11B-2561111-04-2018AnitaKeralaThiruvananthapuram

12B-2561212-04-2018ShrichandPunjabChandigarh

13B-2561312-04-2018MukeshHaryanaChandigarh

14B-2561413-04-2018VandanaHimachal PradeshSimla

15B-2561515-04-2018BhavnaSikkimGangtok

16B-2561615-04-2018KanakGoaGoa

17B-2561717-04-2018SagarNagalandKohima

18B-2561818-04-2018ManjuAndhra PradeshHyderabad

19B-2561918-04-2018RameshGujaratAhmedabad

20B-2562020-04-2018SaritaMaharashtraPune

21B-2562120-04-2018DeepakMadhya PradeshBhopal

22B-2562222-04-2018MonishaRajasthanJaipur

23B-2562322-04-2018AtharvWest BengalKolkata

24B-2562422-04-2018ViniKarnatakaBangalore

25B-2562523-04-2018PinkyJammu and KashmirKashmir

26B-2562623-04-2018BhishmMaharashtraMumbai

27B-2562723-04-2018HitikaMadhya PradeshIndore

28B-2562824-04-2018PoojaBiharPatna

Query Settings

PROPERTIES

Name

List of Orders

All Properties

APPLIED STEPS

Source

Promoted Headers

Changed Type

Renamed Columns

Capitalized Each Word

COLUMNS: 500 ROWS

Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 17:02

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

Table

Any ColumnText ColumnNumber ColumnDate & Time ColumnScripts

Queries [5]

✕

✓

fx

- Table.CombineColumns(#Capitalized Each Word,{"City","State"},Combiner.CombineTextByDelimiter(",","QuoteStyle.None"),"Location")

Table

Order IDDateCustomerNameLocation

1B-2560101-04-2018BharatAhmedabad,Gujarat

2B-2560201-04-2018PearlPune,Maharashtra

3B-2560303-04-2018JahanBhopal,Madhy Pradesh

4B-2560403-04-2018DivshaJaipur,Rajasthan

5B-2560505-04-2018KasheenKolkata,West Bengal

6B-2560606-04-2018HazelBangalore,Karnataka

7B-2560706-04-2018SonakshiKashmir,Jammu and Kashmir

8B-2560808-04-2018AarushiChennai,Tamil Nadu

9B-2560909-04-2018JiteshLucknow,Uttar Pradesh

10B-2561009-04-2018YogeshPatna,Bihar

11B-2561111-04-2018AnitaThiruvananthapuram,Kerala

12B-2561212-04-2018ShrichandChandigarh,Punjab

13B-2561312-04-2018MukeshChandigarh,Haryana

14B-2561413-04-2018VandanaSimla,Himachal Pradesh

15B-2561515-04-2018BhavnaGangtok,Sikkim

16B-2561615-04-2018KanakGoa,Goa

17B-2561717-04-2018SagarKohima,Nagaland

18B-2561818-04-2018ManjuHyderabad,Andhra Pradesh

19B-2561918-04-2018RameshAhmedabad,Gujarat

20B-2562020-04-2018SaritaPune,Maharashtra

21B-2562120-04-2018DeepakBhopal,Madhy Pradesh

22B-2562222-04-2018MonishaJaipur,Rajasthan

23B-2562322-04-2018AtharvKolkata,West Bengal

24B-2562422-04-2018ViniBangalore,Karnataka

25B-2562523-04-2018PinkyKashmir,Jammu and Kashmir

26B-2562623-04-2018BhishmMumbai,Maharashtra

27B-2562723-04-2018HitikaIndore,Madhy Pradesh

28B-2562824-04-2018PoojaPatna,Bihar

Query Settings

PROPERTIES

Name

List of Orders

All Properties

APPLIED STEPS

Source

Promoted Headers

Changed Type

Renamed Columns

Capitalized Each Word

Merged Columns

4 COLUMNS: 500 ROWS

Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 17:02

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

Query Settings

Query Name: Order Details

Query Formula: `-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	Hankkerchief	-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	Hankkerchief	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	Hankkerchief	8.95%
26	856.00	385	6	Electronics	Printers	44.98%
27	485.00	29	4	Electronics	Electronic Games	5.98%

APPLIED STEPS

- Source
- Promoted Headers
- Changed Type
- Changed Type1
- Added Custom
- Changed Type2

Add a new conditional column named "Profit Status" based on the values in the "Profit" column.

Query Settings

Query Name: Order Details

Query Formula: `-Table.AddColumn(#"Changed Type2", "Profit status", each if [Profit] < 0 then "Loss" else if [Profit] = 0 then "Break-Even" else if`

	Amount	Profit	Quantity	Category	Sub-Category	Profit Margin	Profit 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	Hankkerchief	-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	Hankkerchief	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	Hankkerchief	8.95%	Profit
26	856.00	385	6	Electronics	Printers	44.98%	Profit
27	485.00	29	4	Electronics	Electronic Games	5.98%	Profit

APPLIED STEPS

- Source
- Promoted Headers
- Changed Type
- Changed Type1
- Added Custom
- Changed Type2
- Added Conditional Column

Merging Data (Joins):List of order and order details

Queries [6]

Table.NestedJoin("#List of Orders", {"Order ID"}, {"Order Details", "Order ID"}, JoinKind.LeftOuter)

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

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

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Sorting and Filtering Data:

Queries [6]

Table.ExpandTableColumn("#Filtered Rows", "Order Details", {"Category"}, {"Order Details.Category"})

Order ID	Date	CustomerName	Location	Order Details.Category
B-26081	22-03-2019	Aarushi	Chennai,Tamil Nadu	Clothing
B-26081	22-03-2019	Aarushi	Chennai,Tamil Nadu	Electronics
B-26081	22-03-2019	Aarushi	Chennai,Tamil Nadu	Furniture
B-26081	22-03-2019	Aarushi	Chennai,Tamil Nadu	Clothing
B-26081	22-03-2019	Aarushi	Chennai,Tamil Nadu	Clothing
B-26081	22-03-2019	Aarushi	Chennai,Tamil Nadu	Clothing
B-26018	14-02-2019	Aarushi	Chennai,Tamil Nadu	Clothing
B-26018	14-02-2019	Aarushi	Chennai,Tamil Nadu	Furniture
B-26008	09-02-2019	Kalyani	Chennai,Tamil Nadu	Clothing
B-26008	09-02-2019	Kalyani	Chennai,Tamil Nadu	Clothing
B-26008	09-02-2019	Kalyani	Chennai,Tamil Nadu	Clothing
B-26008	09-02-2019	Kalyani	Chennai,Tamil Nadu	Clothing
B-25860	15-11-2018	Akshay	Chennai,Tamil Nadu	Clothing
B-25788	21-09-2018	Dinesh	Chennai,Tamil Nadu	Clothing
B-25716	11-07-2018	Surabhi	Chennai,Tamil Nadu	Clothing
B-25698	23-06-2018	Amisha	Chennai,Tamil Nadu	Clothing
B-25698	23-06-2018	Amisha	Chennai,Tamil Nadu	Clothing
B-25698	23-06-2018	Amisha	Chennai,Tamil Nadu	Electronics
B-25698	23-06-2018	Amisha	Chennai,Tamil Nadu	Clothing
B-25698	23-06-2018	Amisha	Chennai,Tamil Nadu	Clothing
B-25698	23-06-2018	Amisha	Chennai,Tamil Nadu	Furniture
B-25608	08-04-2018	Aarushi	Chennai,Tamil Nadu	Clothing
B-25608	08-04-2018	Aarushi	Chennai,Tamil Nadu	Electronics
B-25608	08-04-2018	Aarushi	Chennai,Tamil Nadu	Furniture
B-25608	08-04-2018	Aarushi	Chennai,Tamil Nadu	Furniture

Grouping and Aggregating Data Sales target

The screenshot shows a data tool interface with a query editor and a results table. The query is: `=Table.Group(*Changed Type*, {"Month of Order Date"}, {"Count", each List.Sum([Target]), type nullable number})`. The results table has two columns: "Month of Order Date" and "Count". The data is grouped by month, with the count of sales targets for each month.

Month of Order Date	Count
01-04-2018	31400
01-05-2018	31500
01-06-2018	31600
01-07-2018	33800
01-08-2018	33900
01-09-2018	34000
01-10-2018	36100
01-11-2018	36300
01-12-2018	36400
01-01-2019	43500
01-02-2019	43600
01-03-2019	43800

Grouping and Aggregating Data Count of order id:

The screenshot shows a data tool interface with a query editor and a results table. The query is: `=Table.Group(*Changed Type*, {"Order ID"}, {"Count", each Table.RowCount(_), Int64.Type})`. The results table has two columns: "Order ID" and "Count". The data is grouped by order ID, with the count of rows for each order ID.

Order ID	Count
B-25601	4
B-25602	5
B-25603	8
B-25604	2
B-25605	1
B-25606	1
B-25607	1
B-25608	4
B-25609	2
B-25610	6
B-25611	1
B-25612	1
B-25613	1
B-25614	2
B-25615	1
B-25616	4
B-25617	1
B-25618	2
B-25619	1
B-25620	1
B-25621	3
B-25622	1
B-25623	4
B-25624	1
B-25625	3
B-25626	2
B-25627	1
B-25628	3

Average of profit category

The screenshot shows the Power BI Desktop interface. The formula bar contains the following DAX formula:

```
= Table.Group(#"Renamed Columns", {"Category"}, {{ "Count", each List.Average([Profit]), type nullable number}})
```

The table below shows the results of this query:

Category	Count
Furniture	9.456790123
Clothing	11.78290832
Electronics	34.07142857

The right-hand pane shows the 'Query Settings' for the selected query, 'DuplicatsOrder Details'. It includes the 'PROPERTIES' section with the query name and a list of 'APPLIED STEPS'.

Data Modeling Relationship between order id:

