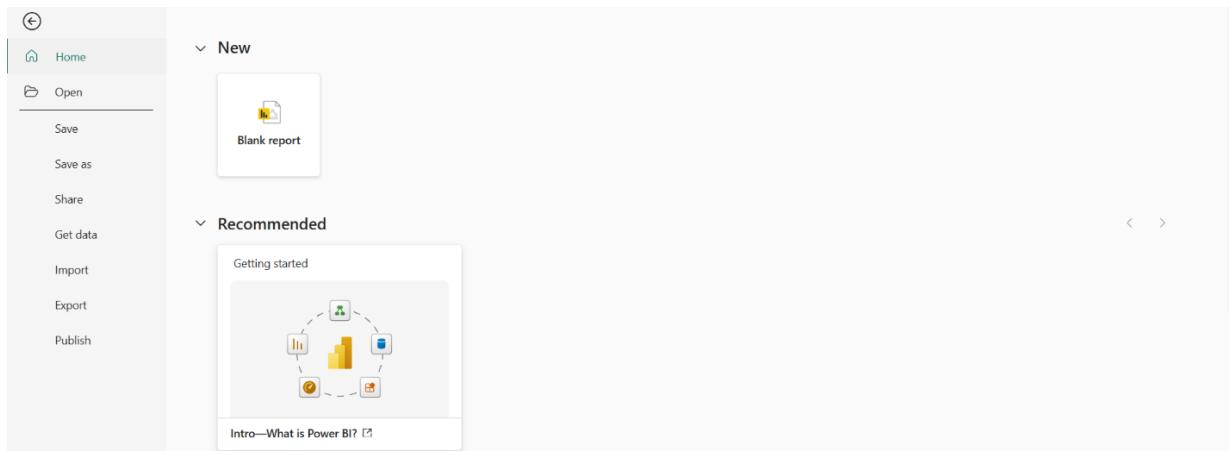
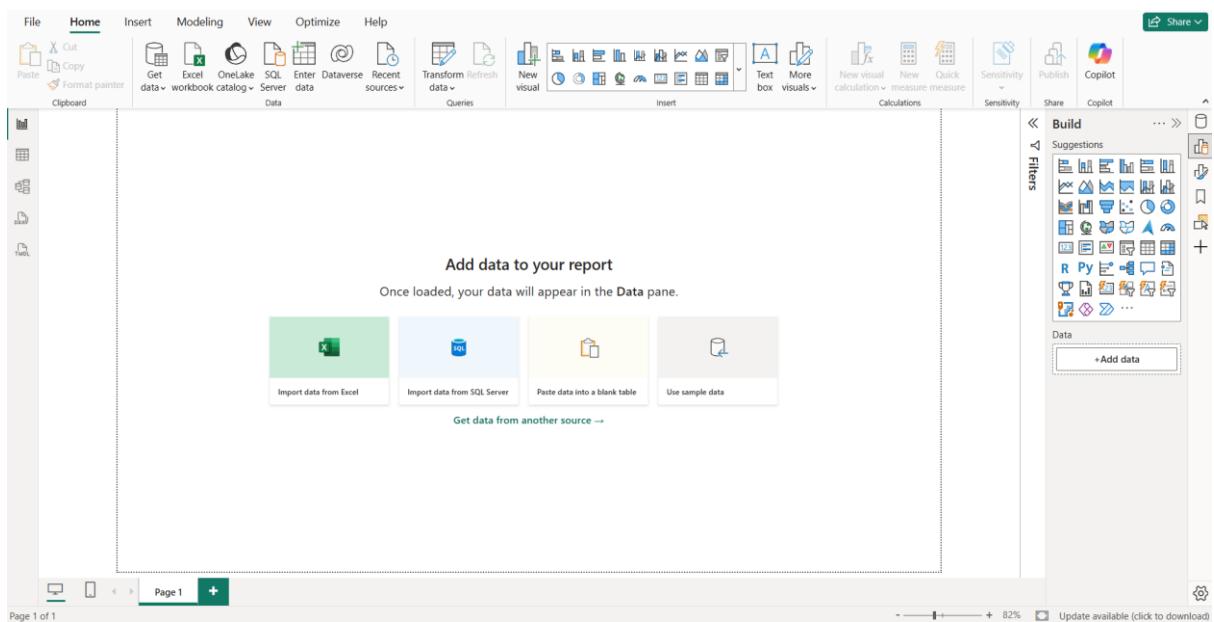


# POWER QUERY EDITOR

## Home Page



## Power Bi Desktop user interface



## Imported Data

The screenshot shows the Microsoft Power BI Home screen. The ribbon at the top includes File, Home, Insert, Modeling, View, Optimize, Help, and various data source and visualization icons. The main area displays a message: "Build visuals with your data. Select or drag fields from the Data pane onto the report canvas." A cursor is hovering over a small icon on the report canvas. To the right is the Data pane, which lists several data sources under the "Data" section, such as "AdventureWorks Sales...", "AdventureWorks Territories...", and "Product Category Sales...". There is also a "+Add data" button. The bottom of the screen shows navigation controls for pages and a zoom level of 82%.

## Renamed Imported Data

This screenshot is identical to the one above, showing the Microsoft Power BI Home screen. The ribbon, main workspace, and Data pane are all the same. However, the Data pane's list of data sources has been modified. Instead of the original AdventureWorks datasets, it now lists renamed versions: "Customer Lookup", "Product Categories Lo...", "Product Category Sale...", "Product Lookup", "Product Subcategory...", "Returns Data", "Sales Data 2020", "Sales Data 2022", and "Territory Lookup". This demonstrates how data can be imported and renamed within the Power BI environment.

## Appending Sales Data (2020,2021 and 2022) into single dataset

Screenshot of Power BI Desktop showing the 'Append' transformation dialog.

The dialog shows the following settings:

- Source: Promoted Headers
- Tables: Three or more tables
- Tables to append: Sales Data 2020, Sales Data 2021, Sales Data 2022

The main area displays a preview of the combined data from three tables. The preview table has 8 columns and 999+ rows, with the first few rows shown below:

OrderDate	StockDate	OrderNumber	ProductKey	CustomerKey	TerritoryKey	OrderLines
01-01-2020	21-09-2019	SO45080	332	14657	1	
01-01-2020	05-12-2019	SO45079	312	29255	4	
01-01-2020	29-10-2019	SO45082	350	11455	9	
01-01-2020	16-11-2019	SO45081	338	26782	6	
02-01-2020	15-12-2019	SO45083	312	14947	10	
02-01-2020	12-10-2019	SO45084	310	29143	4	
02-01-2020	18-12-2019	SO45086	314	18747	9	
02-01-2020	09-10-2019	SO45085	312	18746	9	
03-01-2020	03-10-2019	SO45093	312	18906	9	
03-01-2020	29-09-2019	SO45090	310	29170	4	
03-01-2020	11-12-2019	SO45088	345	11398	10	
03-01-2020	24-10-2019	SO45092	313	18899	9	
03-01-2020	16-12-2019	SO45089	351	25977	4	
03-01-2020	26-10-2019	SO45091	314	18909	9	
03-01-2020	11-09-2019	SO45087	350	11388	10	
03-01-2020	11-09-2019	SO45094	310	22785	6	
04-01-2020	30-10-2019	SO45096	312	12483	7	
04-01-2020	30-10-2019	SO45097	313	29151	4	
04-01-2020	15-09-2019	SO45098	310	29167	1	
04-01-2020	07-12-2019	SO45095	344	11394	10	
04-01-2020	20-12-2019	SO45099	312	29174	1	
05-01-2020	19-09-2019	SO45101	313	22748	6	
05-01-2020	21-11-2019	SO45100	326	19428	8	
05-01-2020	24-11-2019	SO45102	310	29274	4	
05-01-2020	17-10-2019	SO45104	310	29142	4	
06-01-2020	01-10-2019	SO45108	310	22975	6	
06-01-2020	21-11-2019	SO45105	312	22765	6	

Screenshot of Power BI Desktop showing the 'Combine' transformation dialog.

The dialog shows the following settings:

- Source: Sales Data
- Tables: #Sales Data 2020, #Sales Data 2021, #Sales Data 2022

The main area displays a preview of the combined data from three tables. The preview table has 8 columns and 999+ rows, with the first few rows shown below:

OrderDate	StockDate	OrderNumber	ProductKey	CustomerKey	TerritoryKey	OrderLines
01-01-2020	21-09-2019	SO45080	332	14657	1	
01-01-2020	05-12-2019	SO45079	312	29255	4	
01-01-2020	29-10-2019	SO45082	350	11455	9	
01-01-2020	16-11-2019	SO45081	338	26782	6	
02-01-2020	15-12-2019	SO45083	312	14947	10	
02-01-2020	12-10-2019	SO45084	310	29143	4	
02-01-2020	18-12-2019	SO45086	314	18747	9	
02-01-2020	09-10-2019	SO45085	312	18746	9	
03-01-2020	03-10-2019	SO45093	312	18906	9	
03-01-2020	29-09-2019	SO45090	310	29170	4	
03-01-2020	11-12-2019	SO45088	345	11398	10	
03-01-2020	24-10-2019	SO45092	313	18899	9	
03-01-2020	16-12-2019	SO45089	351	25977	4	
03-01-2020	26-10-2019	SO45091	314	18909	9	
03-01-2020	11-09-2019	SO45087	350	11388	10	
03-01-2020	11-09-2019	SO45094	310	22785	6	
04-01-2020	30-10-2019	SO45096	312	12483	7	
04-01-2020	30-10-2019	SO45097	313	29151	4	
04-01-2020	15-09-2019	SO45098	310	29167	1	
04-01-2020	07-12-2019	SO45095	344	11394	10	
04-01-2020	20-12-2019	SO45099	312	29174	1	
05-01-2020	19-09-2019	SO45101	313	22748	6	
05-01-2020	21-11-2019	SO45100	326	19428	8	
05-01-2020	24-11-2019	SO45102	310	29274	4	
05-01-2020	17-10-2019	SO45104	310	29142	4	
06-01-2020	01-10-2019	SO45108	310	22975	6	
06-01-2020	21-11-2019	SO45105	312	22765	6	

## Column Quality

File Home Help Table tools

Queries [12]

CustomerKey Prefix FirstName LastName BirthDate MaritalStatus

1	11000	MR.	JON	YANG	08-04-1966	M
2	11001	MR.	EUGENE	HUANG	14-05-1965	S
3	11002	MR.	RUBEN	TORRES	12-08-1965	M
4	11003	MS.	CHRSTY	ZHU	15-02-1968	S
5	11004	MRS.	ELIZABETH	JOHNSON	08-08-1968	S
6	11005	MR.	JULIO	RIUZ	05-08-1965	S
7	11007	MR.	MARCO	MEHTA	09-05-1964	M
8	11008	MRS.	ROBIN	VERHOFF	07-07-1964	S
9	11009	MR.	SHANNON	CARLSON	01-04-1964	S
10	11010	MS.	JACQUELYN	SUAREZ	06-02-1964	S
11	11011	MR.	CURTIS	LU	04-11-1963	M
12	11012	MRS.	LAUREN	WALKER	18-01-1968	M
13	11013	MR.	IAN	JENKINS	06-08-1968	M
14	11014	MRS.	SYDNEY	BENNETT	09-05-1968	S
15	11015	MS.	CHLOE	YOUNG	27-02-1979	S
16	11016	MR.	WYATT	HILL	28-04-1979	M
17	11017	MRS.	SHANNON	WANG	26-06-1944	S
18	11018	MR.	CLARENCE	RAI	09-10-1944	S
19	11019	MR.	LUKE	LAL	07-03-1978	S
20	11020	MR.	JORDAN	KING	20-09-1978	S

13 COLUMNS, 999+ ROWS Column profiling based on entire data set

Table: Customer Lookup (18,154 rows)

PREVIEW DOWNLOADED AT 23:05  
Update Available (click to download)

## Keep Error

File Home Transform Add Column View Tools Help

Queries [12]

CustomerKey Prefix FirstName LastName BirthDate MaritalStatus

1	Error	m			01-01-1900
2	Error	m			01-01-1900
3	Error	m			01-01-1900
4	Error				null
5	Error				null

13 COLUMNS, 5 ROWS Column profiling based on entire data set

Table: Customer (5 rows)

PREVIEW DOWNLOADED AT 23:15

## Remove Duplicates

The screenshot shows the Power BI Query Editor interface. The top navigation bar includes File, Home, Transform, Add Column, View, Tools, and Help. Under View, 'Column distribution' is checked. The main area displays a table with columns: CustomerKey, Prefix, FirstName, LastName, BirthDate, and MaritalStatus. A status bar at the bottom indicates 13 COLUMNS, 999+ ROWS, and a preview download time of 23:16.

**Query Settings**

- PROPERTIES**: Name - Customer Lookup
- APPLIED STEPS**: Source, Promoted Headers, Changed Type, Removed Errors, Filtered Rows (selected), Kept Errors

**Customer Key Distribution:**

Category	Count
Valid	18148 distinct, 18148 unique
Error	4 distinct, 0 unique
Empty	666 distinct, 89 unique

**FirstName Distribution:**

Category	Count
Valid	372 distinct, 124 unique
Error	8190 distinct, 2928 unique
Empty	2 distinct, 0 unique

**LastName Distribution:**

Category	Count
Valid	YANG (1)
Error	WANG (1)
Empty	JORDAN (1)

**BirthDate Distribution:**

Category	Count
Valid	08-04-1966 (1)
Error	26-06-1944 (1)
Empty	20-09-1978 (1)

**MaritalStatus Distribution:**

Category	Count
Valid	M (1)
Error	S (1)
Empty	(1)

## Column Distribution

The screenshot shows the Power BI Query Editor interface. The top navigation bar includes File, Home, Transform, Add Column, View, Tools, and Help. Under View, 'Column distribution' is checked. The main area displays a table with columns: CustomerKey, Prefix, FirstName, LastName, BirthDate, and MaritalStatus. A status bar at the bottom indicates 13 COLUMNS, 999+ ROWS, and a preview download time of 23:16.

**Query Settings**

- PROPERTIES**: Name - Customer Lookup
- APPLIED STEPS**: Source, Promoted Headers, Changed Type, Removed Errors, Filtered Rows (selected), Kept Errors

**Customer Key Distribution:**

Category	Count
Valid	18148 distinct, 18148 unique
Error	4 distinct, 0 unique
Empty	666 distinct, 89 unique

**FirstName Distribution:**

Category	Count
Valid	372 distinct, 124 unique
Error	8190 distinct, 2928 unique
Empty	2 distinct, 0 unique

**LastName Distribution:**

Category	Count
Valid	YANG (1)
Error	WANG (1)
Empty	JORDAN (1)

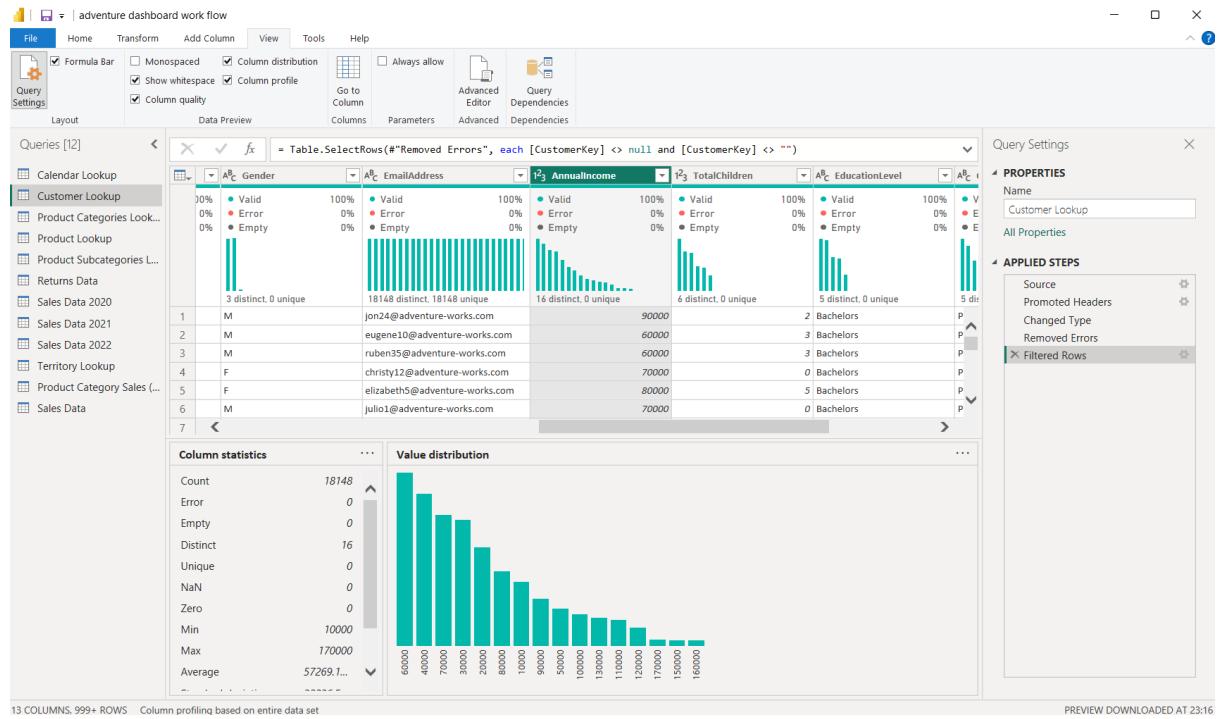
**BirthDate Distribution:**

Category	Count
Valid	08-04-1966 (1)
Error	26-06-1944 (1)
Empty	20-09-1978 (1)

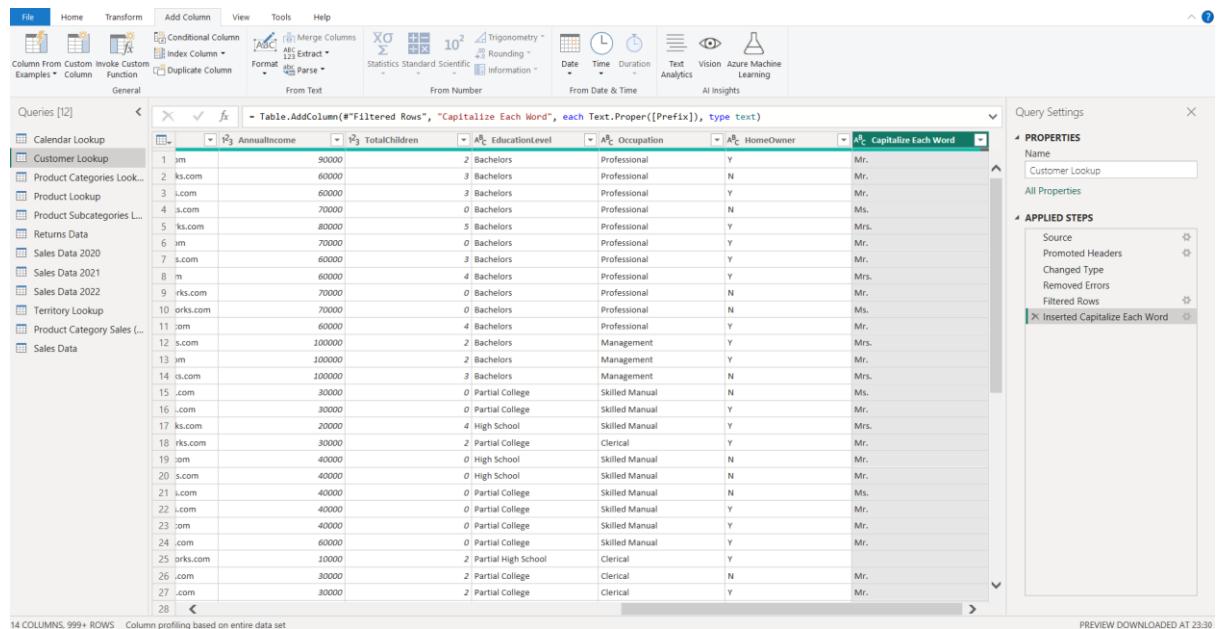
**MaritalStatus Distribution:**

Category	Count
Valid	M (1)
Error	S (1)
Empty	(1)

## Column Profiling



## Capitalize Each Word



## Merge Column

### Merge column (First Name and Last Name)

Screenshot of Power BI desktop showing the 'Merge Columns' dialog box. The dialog box is titled 'Merge Columns' and asks 'Choose how to merge the selected columns.' It shows two columns selected for merging: 'Prefix' and 'FirstName'. A dropdown for 'Separator' is set to '-None-' and a text input for 'New column name (optional)' contains 'Merged'. The main area shows a preview of the merged data, which consists of the original columns followed by the new 'Merged' column. The 'OK' button is highlighted.

CustomerKey	Prefix	FirstName	LastName	Birthdate	MaritalStatus	Gender
1	11000	MR.	JON	YANG	08-04-1966	M
2	11001	MR.	EUGENE	HUANG	14-05-1965	S
3	11002	MR.	RUBEN	TORRES	12-08-1965	M
4	11003	MS.				F
5	11004	MRS.				F
6	11005	MRS.				M
7	11007	MR.				M
8	11008	MRS.				F
9	11009	MR.				M
10	11010	MS.				F
11	11011	MR.				M
12	11012	MRS.				F
13	11013					M
14	11014	MRS.				F
15	11015	MS.				F
16	11016	MR.				M
17	11017	MRS.	SHANNUN	WANG	26-09-1944	S
18	11018		CLARENCE	RAI	09-10-1944	S
19	11019	MR.	LUKE	LAL	07-03-1978	S
20	11020	MR.	JORDAN	KING	20-09-1978	S
21	11021	MS.	DESTINY	WILSON	03-09-1978	F
22	11022	MR.	ETHAN	ZHANG	12-10-1978	M
23	11023	MR.	SETH	EDWARDS	11-10-1978	M
24	11024	MR.	RUSSELL	XIE	17-09-1978	M
25	11025		ALEJANDRO	BECK	23-12-1945	M
26	11026	MR.	HAROLD	SAI	03-04-1946	M
27	11027	MR.	JESSIE	ZHAO	07-12-1946	M

### After Merging First Name and Last Name

Screenshot of Power BI desktop showing the result of merging 'FirstName' and 'LastName' into a single 'Merged' column. The dialog box is no longer visible. The main area shows the updated data table with the 'Merged' column now containing the full names ('JON YANG', 'EUGENE HUANG', etc.). The 'OK' button has been clicked.

TotalChildren	EducationLevel	Occupation	HomeOwner	Capitalize Each Word	Merged
2	Bachelors	Professional	Y	Mr.	JON YANG
2	Bachelors	Professional	N	Mr.	EUGENE HUANG
3	Bachelors	Professional	Y	Mr.	RUBEN TORRES
4	70000	O' Bachelors	Professional	N	CHRISTY ZHU
5	80000	Bachelors	Professional	Y	ELIZABETH JOHNSON
6	70000	O' Bachelors	Professional	Y	JULIO RUIZ
7	60000	Bachelors	Professional	Y	MARCO MEHTA
8	60000	Bachelors	Professional	Y	ROBIN VERHOFF
9	70000	O' Bachelors	Professional	N	SHANNON CARLSON
10	70000	O' Bachelors	Professional	N	JACQUELYN SUAREZ
11	60000	4 Bachelors	Professional	Y	CURTIS LU
12	100000	2 Bachelors	Management	Y	LAUREN WALKER
13	200000	2 Bachelors	Management	Y	IAN JENKINS
14	100000	3 Bachelors	Management	N	SYDNEY BENNETT
15	30000	O' Partial College	Skilled Manual	N	CHLOE YOUNG
16	30000	O' Partial College	Skilled Manual	Y	WYATT HILL
17	20000	4 High School	Skilled Manual	Y	SHANNON WANG
18	30000	2 Partial College	Clerical	Y	CLARENCE RAI
19	40000	O' High School	Skilled Manual	N	LUKE LAL
20	40000	O' High School	Skilled Manual	N	JORDAN KING
21	40000	O' Partial College	Skilled Manual	N	DESTINY WILSON
22	40000	O' Partial College	Skilled Manual	Y	ETHAN ZHANG
23	40000	O' Partial College	Skilled Manual	Y	SETH EDWARDS
24	60000	O' Partial College	Skilled Manual	Y	RUSSELL XIE
25	10000	2 Partial High School	Clerical	Y	ALEJANDRO BECK
26	30000	2 Partial College	Clerical	N	HAROLD SAI
27	30000	2 Partial College	Clerical	Y	JESSIE ZHAO

## Merge (Prefix , First Name, Last Name) as Full Name

Screenshot of Power BI Data Editor showing the transformation of a dataset to merge prefix, first name, and last name into a full name column.

**Applied Steps:**

- Source: Customer Lookup
- Applied Step: Inserted Merged Column1

**Properties:**

- Name: Customer Lookup

**Table Structure:**

	EducationLevel	Occupation	HomeOwner	Capitalize Each Word	Merged	Merged.1
1	h	elors	Professional	Y	Mr.	JON YANG
2	h	elors	Professional	N	Mr.	EUGENE HUANG
3	h	elors	Professional	Y	Mr.	RUBEN TORRES
4	h	elors	Professional	N	Ms.	CHRISTY ZHU
5	h	elors	Professional	Y	Mrs.	ELIZABETH JOHNSON
6	h	elors	Professional	Y	Mr.	JULIO RUIZ
7	h	elors	Professional	Y	Mr.	MARCO MEHTA
8	h	elors	Professional	Y	Mrs.	ROBIN VERHOFF
9	h	elors	Professional	N	Mr.	SHANNON CARLSON
10	h	elors	Professional	N	Ms.	JACQUELYN SUAREZ
11	h	elors	Professional	Y	Mr.	CURTIS LU
12	h	elors	Management	Y	Mrs.	LAUREN WALKER
13	h	elors	Management	Y	Mr.	IAN JENKINS
14	h	elors	Management	N	Mrs.	SYDNEY BENNETT
15	h	ial College	Skilled Manual	N	Ms.	CHLOE YOUNG
16	h	ial College	Skilled Manual	Y	Mr.	WYATT HILL
17	h	School	Skilled Manual	Y	Mrs.	SHANNON WANG
18	h	ial College	Clerical	Y	Mr.	CLARENCE RAI
19	h	School	Skilled Manual	N	Mr.	LUKE LAL
20	h	School	Skilled Manual	N	Mr.	JORDAN KING
21	h	ial College	Skilled Manual	N	Ms.	DESTINY WILSON
22	h	ial College	Skilled Manual	Y	Mr.	ETHAN ZHANG
23	h	ial College	Skilled Manual	Y	Mr.	SETH EDWARDS
24	h	ial College	Skilled Manual	Y	Mr.	RUSSELL XIE
25	h	ial High School	Clerical	Y	Mr.	ALEJANDRO BECK
26	h	ial College	Clerical	N	Mr.	HAROLD SAI
27	h	ial College	Clerical	Y	Mr.	JESSIE ZHAO
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Screenshot of Power BI Data Editor showing the transformation of a dataset to merge prefix, first name, and last name into a full name column, using the `Table.RenameColumns` function.

**Applied Steps:**

- Source: Customer Lookup
- Applied Step: Renamed Columns

**Properties:**

- Name: Customer Lookup

**Table Structure:**

	EducationLevel	Occupation	HomeOwner	Capitalize Each Word	Merged	Full Name
1	2 Bachelor	Professional	Y	Mr.	JON YANG	Mr. JON YANG
2	3 Bachelor	Professional	N	Mr.	EUGENE HUANG	Mr. EUGENE HUANG
3	3 Bachelor	Professional	Y	Mr.	RUBEN TORRES	Mr. RUBEN TORRES
4	0 Bachelor	Professional	N	Ms.	CHRISTY ZHU	Ms. CHRISTY ZHU
5	5 Bachelor	Professional	Y	Mrs.	ELIZABETH JOHNSON	Mrs. ELIZABETH JOHNSON
6	0 Bachelor	Professional	Y	Mr.	JULIO RUIZ	Mr. JULIO RUIZ
7	3 Bachelor	Professional	Y	Mr.	MARCO MEHTA	Mr. MARCO MEHTA
8	4 Bachelor	Professional	Y	Mrs.	ROBIN VERHOFF	Mrs. ROBIN VERHOFF
9	0 Bachelor	Professional	N	Mr.	SHANNON CARLSON	Mr. SHANNON CARLSON
10	0 Bachelor	Professional	N	Ms.	JACQUELYN SUAREZ	Mrs. JACQUELYN SUAREZ
11	4 Bachelor	Professional	Y	Mr.	CURTIS LU	Mr. CURTIS LU
12	2 Bachelor	Management	Y	Mrs.	LAUREN WALKER	Mrs. LAUREN WALKER
13	2 Bachelor	Management	Y	Mr.	IAN JENKINS	Mr. IAN JENKINS
14	3 Bachelor	Management	N	Mrs.	SYDNEY BENNETT	Mrs. SYDNEY BENNETT
15	0 Partial College	Skilled Manual	N	Ms.	CHLOE YOUNG	Ms. CHLOE YOUNG
16	0 Partial College	Skilled Manual	Y	Mr.	WYATT HILL	Mr. WYATT HILL
17	4 High School	Skilled Manual	Y	Mrs.	SHANNON WANG	Mrs. SHANNON WANG
18	2 Partial College	Clerical	Y	Mr.	CLARENCE RAI	Mr. CLARENCE RAI
19	0 High School	Skilled Manual	N	Mr.	LUKE LAL	Mr. LUKE LAL
20	0 High School	Skilled Manual	N	Mr.	JORDAN KING	Mr. JORDAN KING
21	0 Partial College	Skilled Manual	N	Ms.	DESTINY WILSON	Mrs. DESTINY WILSON
22	0 Partial College	Skilled Manual	Y	Mr.	ETHAN ZHANG	Mr. ETHAN ZHANG
23	0 Partial College	Skilled Manual	Y	Mr.	SETH EDWARDS	Mr. SETH EDWARDS
24	0 Partial College	Skilled Manual	Y	Mr.	RUSSELL XIE	Mr. RUSSELL XIE
25	2 Partial High School	Clerical	Y		ALEJANDRO BECK	ALEJANDRO BECK
26	2 Partial College	Clerical	N	Mr.	HAROLD SAI	Mr. HAROLD SAI
27	2 Partial College	Clerical	Y	Mr.	JESSIE ZHAO	Mr. JESSIE ZHAO
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## Duplicated Column

### Duplicated Email Address

Screenshot of Power BI Data Editor showing a query titled "Table.DuplicateColumn(#"Renamed Columns", "EmailAddress", "EmailAddress - Copy")". The table has 17 columns and 99+ rows. The columns are: Occupation, HomeOwner, Capitalize Each Word, Merged, Full Name, and EmailAddress - Copy. The EmailAddress - Copy column contains identical values as the original EmailAddress column. The Properties pane shows the step "Renamed Columns" under the Applied Steps section.

	A <sub>1</sub> Occupation	A <sub>2</sub> HomeOwner	A <sub>3</sub> Capitalize Each Word	A <sub>4</sub> Merged	A <sub>5</sub> Full Name	A <sub>6</sub> EmailAddress - Copy
1	Professional	Y	Mr.	JON YANG	Mr. JON YANG	jon24@adventure-works.com
2	Professional	N	Mr.	EUGENE HUANG	Mr. EUGENE HUANG	eugene10@adventure-works.com
3	Professional	Y	Mr.	RUBEN TORRES	Mr. RUBEN TORRES	ruben35@adventure-works.com
4	Professional	N	Ms.	CHRISTY ZHU	Ms. CHRISTY ZHU	christy12@adventure-works.com
5	Professional	Y	Mrs.	ELIZABETH JOHNSON	Mrs. ELIZABETH JOHNSON	elizabeth@adventure-works.com
6	Professional	Y	Mr.	JULIO RUIZ	Mr. JULIO RUIZ	julio1@adventure-works.com
7	Professional	Y	Mr.	MARCO MEHTA	Mr. MARCO MEHTA	marco14@adventure-works.com
8	Professional	Y	Mrs.	ROBIN VERHOFF	Mrs. ROBIN VERHOFF	rob4@adventure-works.com
9	Professional	N	Mr.	SHANNON CARLSON	Mr. SHANNON CARLSON	shannon1@adventure-works.com
10	Professional	N	Ms.	JACQUELYN SUAREZ	Ms. JACQUELYN SUAREZ	jacquelyn20@adventure-works.com
11	Professional	Y	Mr.	CURTIS LU	Mr. CURTIS LU	curtis9@adventure-works.com
12	Management	Y	Mrs.	LAUREN WALKER	Mrs. LAUREN WALKER	lauren41@adventure-works.com
13	Management	Y	Mr.	IAN JENKINS	Mr. IAN JENKINS	ian47@adventure-works.com
14	Management	N	Mrs.	SYDNEY BENNETT	Mrs. SYDNEY BENNETT	sydney23@adventure-works.com
15	Skilled Manual	N	Ms.	CHLOE YOUNG	Ms. CHLOE YOUNG	chloe23@adventure-works.com
16	Skilled Manual	Y	Mr.	WYATT HILL	Mr. WYATT HILL	wyatt32@adventure-works.com
17	Skilled Manual	Y	Mrs.	SHANNON WANG	Mrs. SHANNON WANG	shannon1@adventure-works.com
18	Clerical	Y	Mr.	CLARENCE RAI	Mr. CLARENCE RAI	clarence32@adventure-works.com
19	Skilled Manual	N	Mr.	LUKE LAL	Mr. LUKE LAL	luke18@adventure-works.com
20	Skilled Manual	N	Mr.	JORDAN KING	Mr. JORDAN KING	jordan73@adventure-works.com
21	Skilled Manual	N	Ms.	DESTINY WILSON	Ms. DESTINY WILSON	destiny7@adventure-works.com
22	Skilled Manual	Y	Mr.	ETHAN ZHANG	Mr. ETHAN ZHANG	ethan20@adventure-works.com
23	Skilled Manual	Y	Mr.	SETH EDWARDS	Mr. SETH EDWARDS	seth46@adventure-works.com
24	Skilled Manual	Y	Mr.	RUSSELL XIE	Mr. RUSSELL XIE	russell7@adventure-works.com
25	Clerical	Y	Mr.	ALEJANDRO BECK	ALEJANDRO BECK	alejandro45@adventure-works.com
26	Clerical	N	Mr.	HAROLD SAI	Mr. HAROLD SAI	harold3@adventure-works.com
27	Clerical	Y	Mr.	JESSIE ZHAO	Mr. JESSIE ZHAO	jessie16@adventure-works.com
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### Extract Text Before and After Delimiter

Screenshot of Power BI Data Editor showing a query titled "Table.RenameColumns(#"Inserted Text After Delimiter", {"Text Before Delimiter", "Email id Name", "Text After Delimiter", "Domain"})". The table has 19 columns and 99+ rows. The columns are: Capitalize Each Word, Merged, Full Name, EmailAddress - Copy, Email id Name, and Domain. The Email id Name column contains values like "jon24@adventure-works.com", "eugene10@adventure-works.com", etc. The Properties pane shows the step "Renamed Columns!" under the Applied Steps section.

	A <sub>1</sub> Capitalize Each Word	A <sub>2</sub> Merged	A <sub>3</sub> Full Name	A <sub>4</sub> EmailAddress - Copy	A <sub>5</sub> Email id Name	A <sub>6</sub> Domain
1	Mr.	JON YANG	Mr. JON YANG	jon24@adventure-works.com	jon24	adventure-works.com
2	Mr.	EUGENE HUANG	Mr. EUGENE HUANG	eugene10@adventure-works.com	eugene10	adventure-works.com
3	Mr.	RUBEN TORRES	Mr. RUBEN TORRES	ruben35@adventure-works.com	ruben35	adventure-works.com
4	Ms.	CHRISTY ZHU	Ms. CHRISTY ZHU	christy12@adventure-works.com	christy12	adventure-works.com
5	Mrs.	ELIZABETH JOHNSON	Mrs. ELIZABETH JOHNSON	elizabeth@adventure-works.com	elizabeth5	adventure-works.com
6	Mr.	JULIO RUIZ	Mr. JULIO RUIZ	julio1@adventure-works.com	julio1	adventure-works.com
7	Mr.	MARCO MEHTA	Mr. MARCO MEHTA	marco14@adventure-works.com	marco14	adventure-works.com
8	Mrs.	ROBIN VERHOFF	Mrs. ROBIN VERHOFF	rob4@adventure-works.com	rob4	adventure-works.com
9	Mr.	SHANNON CARLSON	Mr. SHANNON CARLSON	shannon1@adventure-works.com	shannon1	adventure-works.com
10	Ms.	JACQUELYN SUAREZ	Ms. JACQUELYN SUAREZ	jacquelyn20@adventure-works.com	jacquelyn20	adventure-works.com
11	Mr.	CURTIS LU	Mr. CURTIS LU	curtis9@adventure-works.com	curtis9	adventure-works.com
12	Mrs.	LAUREN WALKER	Mrs. LAUREN WALKER	lauren41@adventure-works.com	lauren41	adventure-works.com
13	Mr.	IAN JENKINS	Mr. IAN JENKINS	ian47@adventure-works.com	ian47	adventure-works.com
14	Mrs.	SYDNEY BENNETT	Mrs. SYDNEY BENNETT	sydney23@adventure-works.com	sydney23	adventure-works.com
15	Ms.	CHLOE YOUNG	Ms. CHLOE YOUNG	chloe23@adventure-works.com	chloe23	adventure-works.com
16	Mr.	WYATT HILL	Mr. WYATT HILL	wyatt32@adventure-works.com	wyatt32	adventure-works.com
17	Mrs.	SHANNON WANG	Mrs. SHANNON WANG	shannon1@adventure-works.com	shannon1	adventure-works.com
18	Mr.	CLARENCE RAI	Mr. CLARENCE RAI	clarence32@adventure-works.com	clarence32	adventure-works.com
19	Mr.	LUKE LAL	Mr. LUKE LAL	luke18@adventure-works.com	luke18	adventure-works.com
20	Mr.	JORDAN KING	Mr. JORDAN KING	jordan73@adventure-works.com	jordan73	adventure-works.com
21	Ms.	DESTINY WILSON	Ms. DESTINY WILSON	destiny7@adventure-works.com	destiny7	adventure-works.com
22	Mr.	ETHAN ZHANG	Mr. ETHAN ZHANG	ethan20@adventure-works.com	ethan20	adventure-works.com
23	Mr.	SETH EDWARDS	Mr. SETH EDWARDS	seth46@adventure-works.com	seth46	adventure-works.com
24	Mr.	RUSSELL XIE	Mr. RUSSELL XIE	russell7@adventure-works.com	russell7	adventure-works.com
25	Mr.	ALEJANDRO BECK	ALEJANDRO BECK	alejandro45@adventure-works.com	alejandro45	adventure-works.com
26	Mr.	HAROLD SAI	Mr. HAROLD SAI	harold3@adventure-works.com	harold3	adventure-works.com
27	Mr.	JESSIE ZHAO	Mr. JESSIE ZHAO	jessie16@adventure-works.com	jessie16	adventure-works.com
28						

## Index Column

### Indexing from 0

13 COLUMNS, 999+ ROWS Column profiling based on entire data set PREVIEW DOWNLOADED AT 22:01

**Properties**

- Name: Customer Lookup
- All Properties

**Applied Steps**

- Source
- Promoted Headers
- Capitalized Each Word
- Merged Columns
- Filtered Rows
- Merged Columns1
- Filtered Rows1
- Filtered Rows2
- Duplicated Column
- Inserted Text Before Delimiter
- Inserted Text After Delimiter
- Removed Columns
- Renamed Columns
- Reordered Columns
- Removed Columns1
- Renamed Columns1
- Added Index
- Reordered Columns1

### Indexing from 1

13 COLUMNS, 999+ ROWS Column profiling based on entire data set PREVIEW DOWNLOADED AT 22:03

**Properties**

- Name: Customer Lookup
- All Properties

**Applied Steps**

- Source
- Promoted Headers
- Capitalized Each Word
- Merged Columns
- Filtered Rows
- Merged Columns1
- Filtered Rows1
- Filtered Rows2
- Duplicated Column
- Inserted Text Before Delimiter
- Inserted Text After Delimiter
- Removed Columns
- Renamed Columns
- Reordered Columns
- Removed Columns1
- Renamed Columns1
- Added Index
- Reordered Columns1

## Custom Index from 14001

Screenshot of Power BI Data Editor showing a query named "Customer Lookup". The table has columns: CustomerKey, FullName, BirthDate, MaritalStatus, and Gender. The "Applied Steps" pane shows the "Reordered Columns" step.

	CustomerKey	FullName	BirthDate	MaritalStatus	Gender
1	14001 11000	Mr.JON YANG	1966-04-08	M	M
2	14002 11001	Mr.EUGENE HUANG	1965-05-14	S	M
3	14003 11002	Mr.RUBEN TORRES	1965-08-12	M	M
4	14004 11003	Ms.CHRISTY ZHU	1968-02-15	S	F
5	14005 11004	Mrs.ELIZABETH JOHNSON	1968-08-08	S	F
6	14006 11005	Mr.JULIO RUIZ	1965-08-05	S	M
7	14007 11007	Mr.MARCO MEHTA	1964-05-09	M	M
8	14008 11008	Mrs.ROBIN VERHOFF	1964-07-07	S	F
9	14009 11009	Mr.SHANNON CARLSON	1964-04-01	S	M
10	14010 11010	Ms.JACQUELYN SUAREZ	1964-02-06	S	F
11	14011 11011	Mr.CURTIS LU	1963-11-04	M	M
12	14012 11012	Mrs.LAUREN WALKER	1968-01-18	M	F
13	14013 11013	Mr.JAN JENKINS	1968-08-06	M	M
14	14014 11014	Mrs.SYDNEY BENNETT	1968-05-09	S	F
15	14015 11015	Ms.CHAO YEOUNG	1979-02-27	S	F
16	14016 11016	Mr.WYATT HILL	1979-04-28	M	M
17	14017 11017	Mrs.SHANNON WANG	1944-06-26	S	F
18	14018 11018	Mr.CLARENCE RAI	1944-10-09	S	M
19	14019 11019	Mr.LUKE LAL	1978-03-07	S	M
20	14020 11020	Mr.JORDAN KING	1978-09-20	S	M
21	14021 11021	Ms.DESTINY WILSON	1978-09-03	S	F
22	14022 11022	Mr.ETHAN ZHANG	1978-10-12	M	M
23	14023 11023	Mr.SETH EDWARDS	1978-10-11	M	M
24	14024 11024	Mr.RUSSELL XIE	1978-09-17	M	M
25				..	..

## Standard

Screenshot of Power BI Data Editor showing a query named "Product Lookup". The table has columns: ProductColor, ProductStyle, ProductCost, and ProductPrice. A modal dialog titled "Multiply" is open, prompting for a multiplication factor. The "Applied Steps" pane shows the "Changed Type" step.

	ProductColor	ProductStyle	ProductCost	ProductPrice
1	Red	0	0	13.0863
2	Black	0	0	12.0278
3	stays dry and provides			
4	stays dry and provides			
5	on visor.			
6	fits all.			
7	ing Jersey			
8	ing Jersey			
9	ing Jersey			
10	ing Jersey			
11	e made from the newest			
12	e made from the newest			
13	e made from the newest a..	48	U	747.9682
14	e made from the newest a..	52	U	747.9682
15	e made from the newest a..	56	U	747.9682
16	le, while offering superior ..	58	U	176.1997
17	le, while offering superior ..	60	U	176.1997
18	le, while offering superior ..	62	U	176.1997
19	le, while offering superior ..	44	U	181.4857
20	le, while offering superior ..	48	U	181.4857
21	le, while offering superior ..	52	U	181.4857
22	le, while offering superior ..	58	U	181.4857
23	le, while offering superior ..	60	U	181.4857
24	le, while offering superior ..	62	U	181.4857
25	**	..	..	300.5636

Created Discount Product cost column by multiplying 0.9(90%) discount

Queries [12]

Table.ReorderColumns(#"Renamed Columns", {"ProductKey", "ProductSubcategoryKey", "ProductSKU", "ProductName", "ModelName", "ProductColor", "ProductSize", "ProductStyle", "ProductCost", "DiscountProductCost", "ProductPrice"} )

	ProductKey	ProductSubcategoryKey	ProductSKU	ProductName	ModelName	ProductColor	ProductSize	ProductStyle	ProductCost	DiscountProductCost	ProductPrice
1	ed	0	0			Valid	100%	Valid	100%	Valid	100%
2	lack	0	0			Error	0%	Error	0%	Error	0%
3	white	M	U			Empty	0%	Empty	0%	Empty	0%
4	white	L	U						3.3963	3.05667	
5	lue	0	0						12.0278	10.82502	33.64
6	luti	0	U						5.7052	5.13468	8.64
7	luti	S	U						31.7244	28.55196	48.06
8	luti	M	U						31.7244	28.55196	48.06
9	luti	L	U						31.7244	28.55196	48.06
10	luti	XL	U						31.7244	28.55196	48.06
11	ed	62	U						747.9682	673.17138	1263.45
12	ed	44	U						747.9682	673.17138	1263.45
13	ed	48	U						747.9682	673.17138	1263.45
14	ed	52	U						747.9682	673.17138	1263.45
15	ed	56	U						747.9682	673.17138	1263.45
16	lack	58	U						176.1997	158.57973	297.63
17	lack	60	U						176.1997	158.57973	297.63
18	lack	62	U						176.1997	158.57973	297.63
19	ed	44	U						181.4857	163.33713	306.56
20	ed	48	U						181.4857	163.33713	306.56
21	ed	52	U						181.4857	163.33713	306.56
22	ed	58	U						181.4857	163.33713	306.56
23	ed	60	U						181.4857	163.33713	306.56
24	ed	62	U						181.4857	163.33713	306.56
25	ed	**	**						**	**	**

12 COLUMNS, 293 ROWS Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 22:11

## Conditional Column

Queries [12]

Table.TransformColumnTypes(#"Promoted Headers", {{"ReturnDate", type date}, {"TerritoryKey", Int64.Type}, {"ProductKey", Int64.Type}, {"ReturnQuantity", Int64.Type} } )

Add Conditional Column

Add a conditional column that is computed from the other columns or values.

New column name: QuantityType

Column Name	Operator	Value	Output
If	is less than or equal to	1	Single Quantity
Else If	is greater than	1	Multiple Quantity
Else	No Quantity		

OK Cancel

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

PREVIEW DOWNLOADED AT 21:58

Screenshot of Power BI Data Editor showing a query step named "Returns Data".

**Properties:**

- Name: Returns Data
- Source: Promoted Headers
- Applied Steps: Added Conditional Column (highlighted)

**Applied Steps:**

- Added Conditional Column

**Query Settings:**

The query step contains the following DAX code:

```
Table.AddColumn(#"Changed Type", "QuantityType", each if [ReturnQuantity] <> 1 then "Single Quantity" else if
```

**Table View:**

	ReturnDate	TerritoryKey	ProductKey	ReturnQuantity	QuantityType
1	18-01-2020	9	312	1	Single Quantity
2	18-01-2020	10	310	1	Single Quantity
3	21-01-2020	8	346	1	Single Quantity
4	22-01-2020	4	311	1	Single Quantity
5	02-02-2020	6	312	1	Single Quantity
6	15-02-2020	1	312	1	Single Quantity
7	19-02-2020	9	311	1	Single Quantity
8	24-02-2020	8	314	1	Single Quantity
9	08-03-2020	8	350	1	Single Quantity
10	13-03-2020	9	350	1	Single Quantity
11	14-03-2020	4	346	1	Single Quantity
12	15-03-2020	9	340	1	Single Quantity
13	22-03-2020	4	311	1	Single Quantity
14	26-03-2020	10	312	1	Single Quantity
15	28-03-2020	7	312	1	Single Quantity
16	28-03-2020	9	314	1	Single Quantity
17	29-03-2020	9	311	1	Single Quantity
18	01-04-2020	8	311	1	Single Quantity
19	07-04-2020	9	311	1	Single Quantity
20	07-04-2020	9	351	1	Single Quantity
21	09-04-2020	9	311	1	Single Quantity
22	10-04-2020	9	326	1	Single Quantity
23	15-04-2020	9	312	1	Single Quantity
24	16-04-2020	9	349	1	Single Quantity
25	20-04-2020	9	310	1	Single Quantity

5 COLUMNS, 999+ ROWS Column profiling based on top 1000 rows PREVIEW DOWNLOADED AT 23:04

## Split Column by Delimiter

Screenshot of Power BI Data Editor showing a query step named "Split Column by Delimiter".

**Properties:**

- Name: Product Category Sales (Unpivot Demo)
- Source: Promoted Headers
- Applied Steps: Changed Type (highlighted)

**Applied Steps:**

- Changed Type

**Query Settings:**

The query step contains the following DAX code:

```
th Region",
```

**Text Column Dialog:**

Specify the delimiter used to split the text column.

Select or enter delimiter: --Custom--

Delimiters:

- Split at:  Left-most delimiter  Right-most delimiter  Each occurrence of the delimiter
- Quote Character:
- Split using special characters:  Insert special character

OK Cancel

5 COLUMNS, 20 ROWS Column profiling based on top 1000 rows PREVIEW DOWNLOADED AT 21:58

## Transpose

### Before Transpose

2 COLUMNS, 4 ROWS – Column profiling based on top 1000 rows.

PREVIEW DOWNLOADED AT 21:58

### After Transpose

4 COLUMNS, 2 ROWS – Column profiling based on top 1000 rows.

PREVIEW DOWNLOADED AT 22:36

## Reverse Rows

The screenshot shows the Power BI Data Editor interface. The top ribbon has tabs for File, Home, Transform, Add Column, View, Tools, and Help. The Transform tab is selected. The ribbon also includes icons for Transpose, Reverse Rows, Detect Data Type, Replace Values, Unpivot Columns, Merge Columns, Split Column, Format, Pivot Column, Convert to List, Statistics, Standard, Scientific, Trigonometry, Rounding, Parse, Date, Time, Duration, Run R script, and Run Python script.

The main area displays a table named "ProductCategoriesLookup" with two columns: "ProductCategoryKey" and "CategoryName". The table contains four rows of data:

ProductCategoryKey	CategoryName
1	Accessories
2	Clothing
3	Components
4	Bikes

The status bar at the bottom left indicates "2 COLUMNS, 4 ROWS - Column profiling based on top 1000 rows". The status bar at the bottom right indicates "PREVIEW DOWNLOADED AT 22:36".

## Count Rows

The screenshot shows the Power BI Data Editor interface. The top ribbon has tabs for File, Home, Transform, Add Column, View, Tools, Help, and Transform. The Transform tab is selected. The ribbon includes icons for To Standard, Scientific, Rounding, and Information.

The main area displays a table named "ProductCategoriesLookup" with one column labeled "Counted Rows". The table contains a single row with the value "4".

The status bar at the bottom left indicates "READY".

## Rounding

### Round Up

Screenshot of Power BI Query Editor showing the 'Round Up' step applied to the 'ProductCost' column.

**Query Settings:**

- Properties:** Name: Product Lookup
- Applied Steps:** Inserted Round Up

**Table Preview:**

ProductSize	ProductStyle	ProductCost	DiscountProductCost	ProductPrice	Round Up
1	0	13.0863	11.77767	34.99	14
2	0	12.0278	10.82502	33.6442	13
3	U	3.3963	3.05667	9.5	4
4	U	3.3963	3.05667	9.5	4
5	0	12.0278	10.82502	33.6442	13
6	U	5.7052	5.13468	8.6442	6
7	U	31.7244	28.55196	48.0673	32
8	U	31.7244	28.55196	48.0673	32
9	U	31.7244	28.55196	48.0673	32
10	U	31.7244	28.55196	48.0673	32
11	U	747.9682	673.17138	1263.4598	748
12	U	747.9682	673.17138	1263.4598	748
13	U	747.9682	673.17138	1263.4598	748
14	U	747.9682	673.17138	1263.4598	748
15	U	747.9682	673.17138	1263.4598	748
16	U	176.1997	158.57973	297.6346	177
17	U	176.1997	158.57973	297.6346	177
18	U	176.1997	158.57973	297.6346	177
19	U	181.4857	163.33713	306.5636	182
20	U	181.4857	163.33713	306.5636	182
21	U	181.4857	163.33713	306.5636	182
22	U	181.4857	163.33713	306.5636	182
23	U	181.4857	163.33713	306.5636	182
24	U	181.4857	163.33713	306.5636	182
25	..	...	...	...	...

13 COLUMNS, 293 ROWS - Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 22:41

### Round Down

Screenshot of Power BI Query Editor showing the 'Round Down' step applied to the 'ProductCost' column.

**Query Settings:**

- Properties:** Name: Product Lookup
- Applied Steps:** Inserted Round Down

**Table Preview:**

ProductSize	ProductStyle	ProductCost	DiscountProductCost	ProductPrice	Round Down
1	0	13.0863	11.77767	34.99	11
2	0	12.0278	10.82502	33.6442	10
3	U	3.3963	3.05667	9.5	3
4	U	3.3963	3.05667	9.5	3
5	0	12.0278	10.82502	33.6442	10
6	U	5.7052	5.13468	8.6442	5
7	U	31.7244	28.55196	48.0673	28
8	U	31.7244	28.55196	48.0673	28
9	U	31.7244	28.55196	48.0673	28
10	U	31.7244	28.55196	48.0673	28
11	U	747.9682	673.17138	1263.4598	673
12	U	747.9682	673.17138	1263.4598	673
13	U	747.9682	673.17138	1263.4598	673
14	U	747.9682	673.17138	1263.4598	673
15	U	747.9682	673.17138	1263.4598	673
16	U	176.1997	158.57973	297.6346	158
17	U	176.1997	158.57973	297.6346	158
18	U	176.1997	158.57973	297.6346	158
19	U	181.4857	163.33713	306.5636	163
20	U	181.4857	163.33713	306.5636	163
21	U	181.4857	163.33713	306.5636	163
22	U	181.4857	163.33713	306.5636	163
23	U	181.4857	163.33713	306.5636	163
24	U	181.4857	163.33713	306.5636	163
25	..	...	...	...	...

13 COLUMNS, 293 ROWS - Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 22:43

## Pivoting Column

### Before Pivot

The screenshot shows the Power BI Data Editor interface. On the left, there's a list of queries. The main area displays a table with four columns: SalesTerritoryKey, Region, Country, and Continent. The Data Type ribbon at the top indicates that SalesTerritoryKey is a Whole Number and the other three columns are Text. The Query Settings pane on the right shows the query is named "Territory Lookup".

SalesTerritoryKey	Region	Country	Continent
1	Northwest	United States	North America
2	Northeast	United States	North America
3	Central	United States	North America
4	Southwest	United States	North America
5	Southeast	United States	North America
6	Canada	Canada	North America
7	France	France	Europe
8	Germany	Germany	Europe
9	Australia	Australia	Pacific
10	United Kingdom	United Kingdom	Europe

### After Pivot

The screenshot shows the Power BI Data Editor interface after pivoting. The main area displays a table with six columns: Region, Continent, United States, Canada, France, and Germany. The Data Type ribbon at the top indicates that all columns are Text. The Query Settings pane on the right shows the query is named "Territory Lookup".

Region	Continent	United States	Canada	France	Germany
Australia	Pacific	null	null	null	null
Canada	North America	null	6	null	null
Central	North America	3	null	null	null
France	Europe	null	null	7	null
Germany	Europe	null	null	null	8
Northeast	North America	2	null	null	null
Northwest	North America	1	null	null	null
Southeast	North America	5	null	null	null
Southeast	North America	4	null	null	null
United Kingdom	Europe	null	null	null	null

## Unpivoting Column

### Before Unpivot

The screenshot shows a Power BI Data Editor interface with the following details:

- Queries [12]:** A list of various lookups and data sources.
- Transform ribbon:** Options include Transpose, Replace Values, Unpivot Columns, Move, Pivot Column, Convert to List, Split Column, Format, Parse, Statistics, Standard, Scientific, Information, Date, Time, Duration, Number Column, and Date & Time Column.
- Table:** The main view displays a pivoted table with the following schema:
 

	Date	Product Category	North Region	Central Region	South Region
1	07-01-2022	Bikes	10	19	29
2	07-01-2022	Components	14	31	16
3	07-01-2022	Clothing	35	32	46
4	07-01-2022	Accessories	13	42	26
5	07-02-2022	Bikes	47	23	41
6	07-02-2022	Components	41	36	9
7	07-02-2022	Clothing	13	14	27
8	07-02-2022	Accessories	45	21	28
9	07-03-2022	Bikes	18	24	12
10	07-03-2022	Components	11	32	18
11	07-03-2022	Clothing	43	35	35
12	07-03-2022	Accessories	49	8	15
13	07-04-2022	Bikes	36	33	43
14	07-04-2022	Components	16	17	30
15	07-04-2022	Clothing	15	18	28
16	07-04-2022	Accessories	34	28	31
17	07-05-2022	Bikes	16	43	14
18	07-05-2022	Components	14	32	11
19	07-05-2022	Clothing	11	25	46
20	07-06-2022	Accessories	17	11	74
- Properties pane:** Shows the query settings with the name "Product Category Sales (Unpivot Demo)" and applied steps for "Promoted Headers" and "Changed Type".

### After Unpivot

The screenshot shows a Power BI Data Editor interface with the following details:

- Queries [12]:** A list of various lookups and data sources.
- Transform ribbon:** Options include Transpose, Replace Values, Unpivot Columns, Move, Pivot Column, Convert to List, Split Column, Format, Parse, Statistics, Standard, Scientific, Information, Date, Time, Duration, Number Column, and Date & Time Column.
- Table:** The main view displays an unpivoted table with the following schema:
 

	Date	Product Category	Attribute	Value
1	07-01-2022	Bikes	North Region	10
2	07-01-2022	Bikes	Central Region	19
3	07-01-2022	Bikes	South Region	25
4	07-01-2022	Components	North Region	14
5	07-01-2022	Components	Central Region	31
6	07-01-2022	Components	South Region	16
7	07-01-2022	Clothing	North Region	35
8	07-01-2022	Clothing	Central Region	32
9	07-01-2022	Clothing	South Region	46
10	07-01-2022	Accessories	North Region	13
11	07-01-2022	Accessories	Central Region	42
12	07-01-2022	Accessories	South Region	26
13	07-02-2022	Bikes	North Region	47
14	07-02-2022	Bikes	Central Region	23
15	07-02-2022	Bikes	South Region	41
16	07-02-2022	Components	North Region	41
17	07-02-2022	Components	Central Region	36
18	07-02-2022	Components	South Region	9
19	07-02-2022	Clothing	North Region	13
20	07-02-2022	Clothing	Central Region	14
21	07-02-2022	Clothing	South Region	27
22	07-02-2022	Accessories	North Region	45
23	07-02-2022	Accessories	Central Region	21
24	07-02-2022	Accessories	South Region	28
25	07-03-2022	Bikes	North Region	18
- Properties pane:** Shows the query settings with the name "Product Category Sales (Unpivot Demo)" and applied steps for "Promoted Headers" and "Unpivoted Only Selected Colu...".

## Pivot Column

### Before Pivot

The screenshot shows the Power Query Editor interface. The ribbon at the top has 'File', 'Home', 'Transform', 'Add Column', 'View', 'Tools', and 'Help'. The 'Transform' tab is selected. The 'Data Type' dropdown is set to 'Text'. The main area displays a table with two columns: 'ProductCategoryKey' and 'CategoryName'. The table contains four rows with data: 1 Bikes, 2 Components, 3 Clothing, and 4 Accessories. The 'Applied Steps' pane on the right shows a single step named 'Changed Type'. The status bar at the bottom indicates '2 COLUMNS. 4 ROWS. Column profiling based on top 1000 rows'.

### After Pivot

The screenshot shows the Power Query Editor interface after performing a pivot operation. The ribbon and toolbars are identical to the previous screenshot. The main area now displays a table with one row and four columns, labeled 'Bikes', 'Components', 'Clothing', and 'Accessories'. The 'Applied Steps' pane on the right shows two steps: 'Promoted Headers' and 'Pivoted Column'. The status bar at the bottom indicates '4 COLUMNS. 1 ROW. Column profiling based on top 1000 rows'.

## Unpivot Column

### Before Unpivot

The screenshot shows the Power BI Data Editor interface. The top ribbon has tabs for File, Home, Transform, Add Column, View, Tools, and Help. The Transform tab is selected. The ribbon also includes icons for Transpose, Reverse Rows, Count Rows, Pivot Column, and Convert to List. Below the ribbon is a toolbar with various data manipulation tools like Replace Values, Unpivot Columns, Merge Columns, Split Columns, Format, Parse, Statistics, Trigonometry, Date, Time, Duration, and Date & Time Column. A Python script icon is also present. The main area displays a table with four columns: Bikes, Components, Clothing, and Accessories. Each column contains a single value: Bikes (1), Components (2), Clothing (3), and Accessories (4). The bottom left corner indicates "4 COLUMNS, 1 ROW" and "Column profiling based on top 1000 rows". The bottom right corner shows "PREVIEW DOWNLOADED AT 00:22". On the right side, there is a "Query Settings" pane with sections for Properties (Name: Product Categories Lookup) and Applied Steps (Source, Promoted Headers, Changed Type, Pivoted Column).

### After Unpivot

The screenshot shows the Power BI Data Editor interface after an unpivot operation. The top ribbon and toolbar are identical to the previous screenshot. The main area now displays a table with two columns: Attribute and Value. The Attribute column lists the categories: Bikes, Components, Clothing, and Accessories. The Value column lists the corresponding numerical values: 1, 2, 3, and 4 respectively. The bottom left corner indicates "2 COLUMNS, 4 ROWS" and "Column profiling based on top 1000 rows". The bottom right corner shows "PREVIEW DOWNLOADED AT 00:25". The right side "Query Settings" pane shows the same properties and applied steps as the previous screenshot, with the addition of "Unpivoted Only Selected Col..." under Applied Steps.