

Data Transformation in Power BI

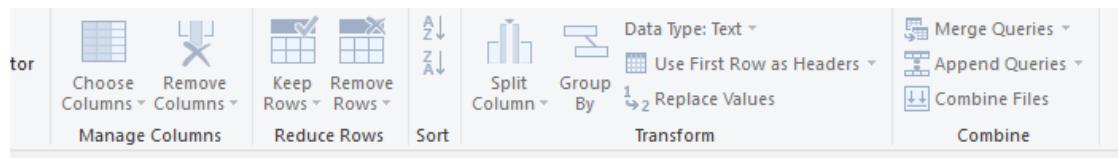
✓ Merge Tables using Append

The screenshot shows the Power BI Data Editor interface with the 'Append' transformation dialog open. The dialog title is 'Append' and it says 'Concatenate rows from three or more tables into a single table.' There are two radio button options: 'Two tables' and 'Three or more tables', with 'Three or more tables' selected. Below these are two lists: 'Available tables' and 'Tables to append'. Both lists contain the same items: Zomato Africa, Zomato Asia, Zomato Europe, Zomato NAM, Zomato Oceania, Zomato SAM, KPIs, and Country Master. A button 'Add >>' is between the two lists. At the bottom right are 'OK' and 'Cancel' buttons.

✓ Remove “City” from city names using Replace Values

The screenshot shows the Power BI Data Editor interface with the 'Replace Values' dialog open over a table. The table has columns: Code, City, Restaurant Name, Address, and Locality. The 'City' column contains various city names. The 'Replace Values' dialog has fields 'Value To Find' (set to 'City') and 'Replace With' (empty). There is also an 'Advanced options' link. At the bottom right are 'OK' and 'Cancel' buttons.

✓ Splitting column values in two columns (Restaurant Name & Address)



`tanbul", "Istanbul", Replacer.ReplaceText, {"City"})`

A ^B Restaurant Name,Address	A ^B Locality
The Butcher's Wife,15 Belgrave Road, Athlone, Cape Town	Athlone
Coco Safar,Ground Floor, Cavendish Square, Claremont, Cape Town	Cavendish Square, Claremont
La Parada,107 Bree Street, CBD, Cape Town	CBD
Jason Bakery,185 Bree Street, CBD, Cape Town	CBD
Truth Coffee,36 Buitenkant Street, CBD, Cape Town	CBD

Split Column by Delimiter

Specify the delimiter used to split the text column.

Select or enter delimiter

Comma

Split at

- Left-most delimiter
- Right-most delimiter
- Each occurrence of the delimiter

Advanced options

Quote Character

"

Split using special characters

Insert special character

OK

Cancel

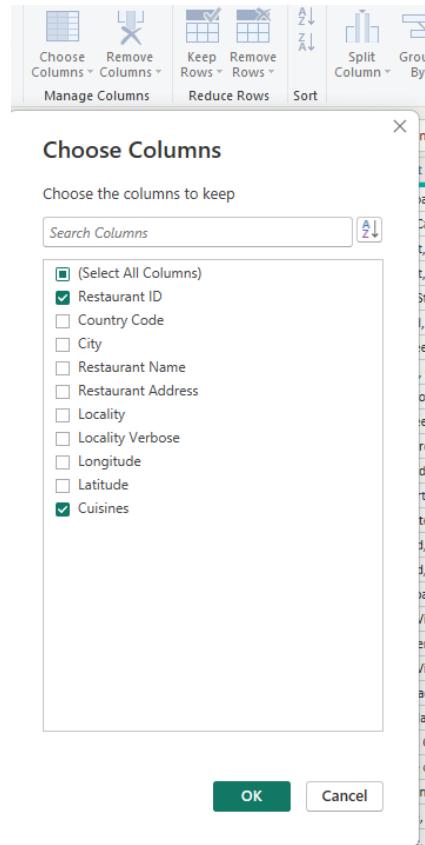
✓ Change Column Headers

A ^B _C Restaurant Name	A ^B _C Restaurant Address
The Butcher's Wife	15 Belgravia Road, Athlone, Cape Town
Coco Safar	Ground Floor, Cavendish Square, Claremont, Cape Town
La Parada	107 Bree Street, CBD, Cape Town
Jason Bakery	185 Bree Street, CBD, Cape Town
Truth Coffee	36 Buitenkant Street, CBD, Cape Town
Salushi	25 Protea Road, Claremont, Cape Town
Origin Coffee Roasting	28 Hudson Street, De Waterkant, Cape Town
Kloof Street House	30 Kloof Street, Gardens, Cape Town
Jerry's Burger Bar	5 Park Road, Kloof Street, Gardens, Cape Town
Active Sushi	32 Hudson Street, Mirage Building, Green Point, Cape Town
Pelican	The Foundry, Bree Street, Green Point, Cape Town

✓ Create a new table “Cuisines” having Restaurant ID and Cuisines columns only

✓ Duplicated Append1 table

- selecting only Restaurant ID and Cuisines columns under Choose Columns
- renaming the file as “Cuisines”



The screenshot shows the Microsoft Power Query Editor interface. The ribbon at the top has sections for Close & Apply, New Source, Recent Sources, Enter Data, Data source settings, Manage Parameters, Export query results, Refresh Preview, Properties, Advanced Editor, Manage, and Choose/Remove Columns. The 'Queries [10]' pane on the left lists various queries, with 'Cuisines' selected. The main area displays a table with two columns: 'Restaurant ID' and 'Cuisines'. The data consists of 17 rows, each containing a unique Restaurant ID and a list of cuisines separated by commas.

	Restaurant ID	Cuisines
1	18395463	Pizza, Grill
2	18337845	Cafe, Patisserie
3	6401732	Spanish, Tapas
4	6401060	Cafe, Bakery
5	6400421	Cafe
6	6402177	Japanese, Sushi, Asian
7	6401198	Cafe, Bakery, Tea, Vegetarian
8	6401054	Mediterranean
9	6403291	Burger, American
10	6403499	Sushi
11	6400191	Seafood, Asian, Grill, Sushi
12	6404082	Burger, Fast Food, Grill
13	6401485	Desserts, Ice Cream
14	6400621	Japanese, Asian, Seafood, Sushi
15	6403544	Cafe, Burger
16	6403452	Cafe, Patisserie, Bakery, Desserts
17	6402163	Seafood, African, Sushi

- ✓ Separating Cuisines for each unique restaurant
 - Method One: Split the Cuisines column by “Comma and Space” by Row

	Restaurant ID	Cuisines
1	18395463	Pizza, Grill
2	18337845	Cafe, Patisserie
3	6401732	Spanish, Tapas
4	6401060	Cafe, Bakery
5	6400421	Cafe
6	6402177	Japanese, Sushi, Asian
7	6401198	Cafe, Bakery, Tea, Vegetarian
8	6401054	Mediterranean
9	6403291	Burger, American
10	6403499	Sushi
11	6400191	Seafood, Asian, Grill, Sushi
12	6404082	Burger, Fast Food, Grill
13	6401485	Desserts, Ice Cream
14	6400621	Japanese, Asian, Seafood, Sushi
15	6403544	Cafe, Burger
16	6403452	Cafe, Patisserie, Bakery, Desserts
17	6402163	Seafood, African, Sushi
18	6401789	Cafe, Mediterranean
19	6400235	Burger, American, Grill
20	6400217	Seafood, Japanese, Sushi
21	6501534	European, Contemporary
22	18339373	Tapas
23	6517396	Asian, Sushi, Tapas
24	6502688	European, Pizza
25	6515130	Burger, Finger Food, Pizza
26	6502341	American, Burger
27	6516766	American
28	18370704	Continental, South African, Beverages, Desserts
29	75027	African
30	18199767	Burger, Steak, Seafood
31	75031	Indian

Split Column by Delimiter

Specify the delimiter used to split the text column.

Select or enter delimiter

--Custom--

,

Split at

Left-most delimiter

Right-most delimiter

Each occurrence of the delimiter

Advanced options

Split into

Columns

Rows

Quote Character

"

Split using special characters

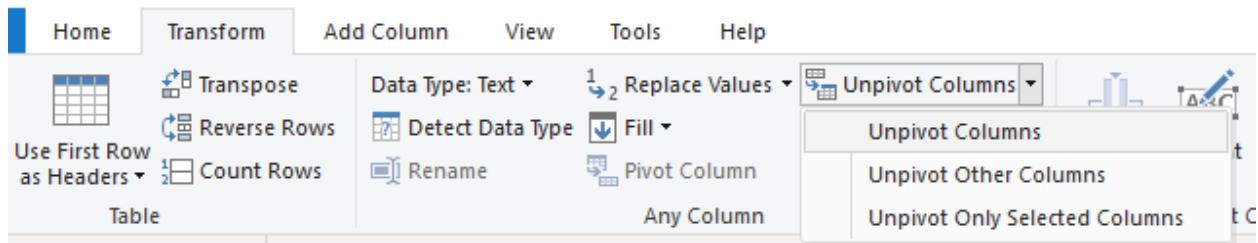
Insert special character

OK Cancel

- Method 2: If used by Columns instead Row as default, it will transform into multiple columns

	Restaurant ID	Cuisines.1	Cuisines.2	Cuisines.3	Cuisines.4	Cuisines.5	Cuisines.6	Cuisines.7
1	18395463	Pizza	Grill	null	null	null	null	null
2	18337845	Cafe	Patisserie	null	null	null	null	null
3	6401732	Spanish	Tapas	null	null	null	null	null
4	6401060	Cafe	Bakery	null	null	null	null	null
5	6400421	Cafe		null	null	null	null	null
6	6402177	Japanese	Sushi	Asian		null	null	null
7	6401198	Cafe	Bakery	Tea	Vegetarian		null	null
8	6401054	Mediterranean		null	null	null	null	null
9	6403291	Burger	American		null	null	null	null
10	6403499	Sushi		null	null	null	null	null
11	6400191	Seafood	Asian	Grill	Sushi		null	null
12	6404082	Burger	Fast Food	Grill		null	null	null
13	6401485	Desserts	Ice Cream		null	null	null	null
14	6400621	Japanese	Asian	Seafood	Sushi		null	null

- ✓ Unpivot Columns to make a single Cuisines column to avoid multiple columns



- ✓ Converting “Country” column to only unique and non-blank values (fixing null)

The screenshot shows the Power BI Data view with the 'Country Master' table selected. The table has three columns: 'Country Code' (containing values 1 through 15), 'Country.1.1' (containing country names like Indonesia, Sri Lanka, UAE, etc.), and 'Country.1.2' (containing null values). The Power BI ribbon is visible at the top, showing the 'Transform' tab is selected. The left sidebar shows other tables in the data model: Zomato Africa, Zomato Asia, Zomato Europe, Zomato NAM, Zomato Oceania, Zomato SAM, KPIs, Append1, and Cuisines.

	Country Code	Country.1.1	Country.1.2
1	94	Indonesia	
2	94	Indonesia	
3	null		null
4	191	Sri Lanka	
5	214	UAE	
6	94	Indonesia	
7	1	India	
8	30	Brazil	
9	null		null
10	14	Australia	
11	208	Turkey	
12	189	South Africa	
13	1	India	
14	216	United States	
15	null		null

- ✓ Removing null and duplicate values (data cleaning)

A screenshot of the Power BI Data Editor interface. The top ribbon shows tabs for Enter Data, Data source settings, Manage Parameters, Export query results, Refresh Preview, Properties, Advanced Editor, and Query. The Query tab is selected. Below the ribbon is a table with columns labeled 'Country Code' and 'Country'. The table contains 15 rows of data. To the right of the table, a context menu is open under the 'Remove' section, listing options such as Remove Top Rows, Remove Bottom Rows, Remove Alternate Rows, Remove Duplicates, Remove Blank Rows, and Remove Errors.

	Country Code	Country
1	94	Indonesia
2	191	Sri Lanka
3	214	UAE
4	1	India
5	30	Brazil
6	14	Australia
7	208	Turkey
8	189	South Africa
9	216	United States
10	215	United Kingdom
11	162	Phillipines
12	166	Qatar
13	37	Canada
14	148	New Zealand
15	184	Singapore

- ✓ Adding a “Continent” Column manually for each country

→ Add Columns → Column From Examples → From All Columns

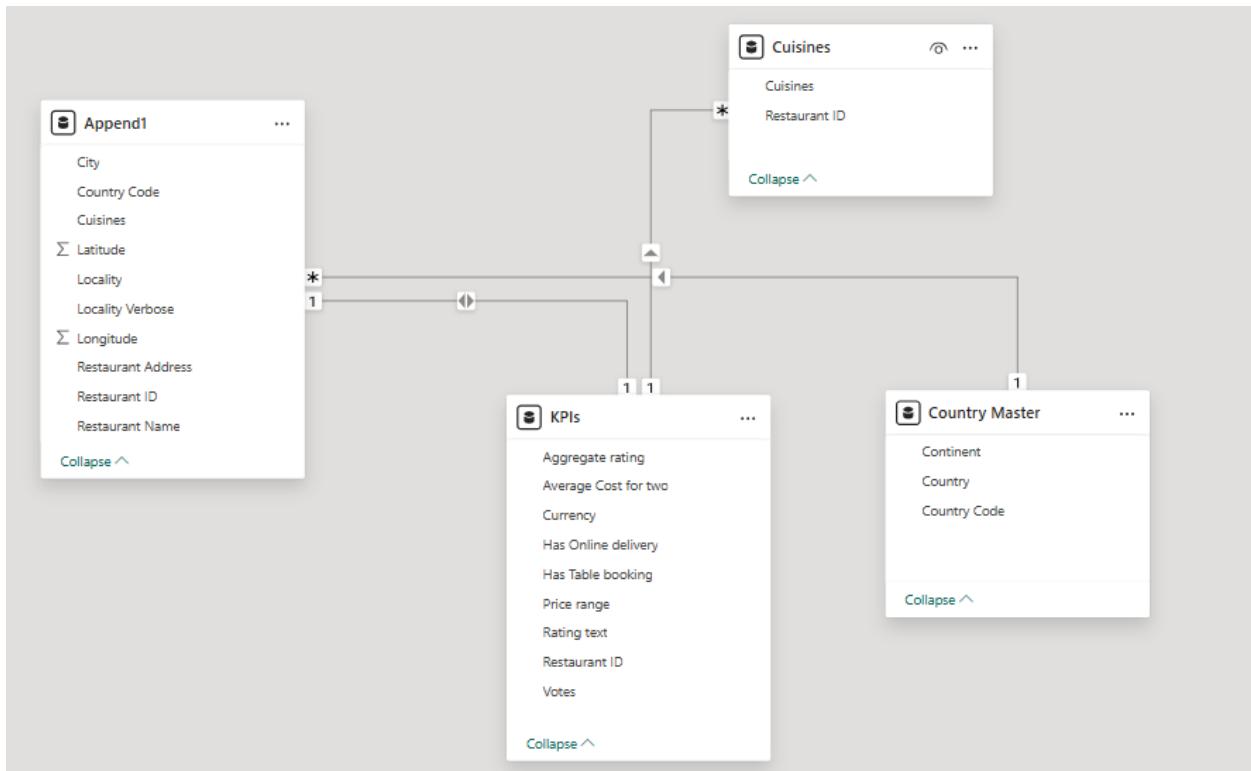
A screenshot of the Power BI Data Editor interface, focusing on the 'Add Column' ribbon tab. The 'From Examples' button is highlighted. Below the ribbon is a table with columns 'Country Code' and 'Country'. The table contains 15 rows of data. To the right, a 'Column From Examples' dialog box is open, showing a list of columns and an 'OK' button.

	Country Code	Country
1	94	Indonesia
2	191	Sri Lanka
3	214	UAE
4	1	India
5	30	Brazil
6	14	Australia
7	208	Turkey
8	189	South Africa
9	216	United States
10	215	United Kingdom
11	162	Phillipines
12	166	Qatar
13	37	Canada
14	148	New Zealand
15	184	Singapore

	Country Code	A ^B _C Country.1.1	A ^B _C Continent
1	94	Indonesia	Asia
2	191	Sri Lanka	Asia
3	214	UAE	Asia
4	1	India	Asia
5	30	Brazil	South America
6	14	Australia	Oceania
7	208	Turkey	Asia
8	189	South Africa	Africa
9	216	United States	North America
10	215	United Kingdom	Europe
11	162	Phillipines	Asia
12	166	Qatar	Asia
13	37	Canada	North America
14	148	New Zealand	Oceania
15	184	Singapore	Asia

✓ Data Model (Model view)

→ Final tables (Append1, KPIs, Country Master & Cuisines)



✓ **Data is ready for further analysis/ visualization!**