

# Data Manipulation and Reporting with Power BI

**Objective:** To design a dashboard for easy visualization

## 2. Data transformation:

Make sure the **City** column names are corrected

The screenshot displays the Power Query Editor interface. The main area shows a table with the following columns: Restaurant ID, Country Code, City, Restaurant Name, and Restaurant Address. The data rows show various restaurants, mostly in Cape Town. The formula bar at the top indicates a M query: `Table.ReplaceValue(removedColumns2, \"São Paulo\", \"Cape Town\", Replacer.ReplaceText, {\"City\"})`. The right-hand pane shows the 'Query Settings' for 'Zomato Africa', including 'Properties' and 'Applied Steps'.

Restaurant ID	Country Code	City	Restaurant Name	Restaurant Address
1	18395463	189 Cape Town	The Butcher's Wife	15 Belgravia Road, Athlone, Cape Town
2	18337845	189 Cape Town	Coco Safar	Ground Floor, Cavendish Square, Claremont
3	6401732	189 Cape Town	La Parada	107 Bree Street, CBD, Cape Town
4	6401060	189 Cape Town	Jason Bakery	185 Bree Street, CBD, Cape Town
5	6400421	189 Cape Town	Truth Coffee	36 Buitenkant Street, CBD, Cape Town
6	6402177	189 Cape Town	Salushi	25 Protea Road, Claremont, Cape Town
7	6401198	189 Cape Town	Origin Coffee Roasting	28 Hudson Street, De Waterkant, Cape Town
8	6401054	189 Cape Town	Kloof Street House	30 Kloof Street, Gardens, Cape Town
9	6403291	189 Cape Town	Jerry's Burger Bar	5 Park Road, Kloof Street, Gardens, Cape Town
10	6403499	189 Cape Town	Active Sushi	32 Hudson Street, Mirage Building, Green Point, Cape Town
11	640191	189 Cape Town	Beluga	The Foundry, Prestwich Street, Green Point, Cape Town
12	6404082	189 Cape Town	Rocomamas	107a Main Road, Green Point, Cape Town
13	6401485	189 Cape Town	The Creamery	Newlands Quarter, Dean Street, Newlands, Cape Town
14	6400621	189 Cape Town	Nobu - One&Only	One & Only Hotel, Dock Road, V & A Waterfront, Cape Town
15	6403544	189 Cape Town	Jarryds	90 Regent Road, Sea Point, Cape Town
16	6403452	189 Cape Town	My Sugar	77 Regent Road, Sea Point, Cape Town
17	6402163	189 Cape Town	Grand Café & Beach	Granger Bay Road, Granger Bay, V & A Waterfront, Cape Town
18	6401789	189 Cape Town	tashas	Ground Level, Victoria Wharf, V & A Waterfront, Cape Town
19	6400235	189 Cape Town	Gibson's Gourmet Burgers & Ribs	Shop 157, Lower Level, Victoria Wharf, V & A Waterfront, Cape Town
20	6400317	189 Cape Town	Willoughby & Co.	Ground Level, Victoria Wharf, V & A Waterfront, Cape Town

Table.ReplaceValue("#Replaced Value1", "0Astanbul", "Istanbul", Replacer.ReplaceText, {"City"})

	Restaurant ID	Country Code	City	Restaurant Name	Restaurant Address
1	18395463	189	Cape Town	The Butcher's Wife	15 Belgravia Road, Athlone, Cape Town
2	18337845	189	Cape Town	Coco Safar	Ground Floor, Cavendish Square, Claren
3	6401732	189	Cape Town	La Parada	107 Bree Street, CBD, Cape Town
4	6401060	189	Cape Town	Jason Bakery	185 Bree Street, CBD, Cape Town
5	6400421	189	Cape Town	Truth Coffee	36 Buitenkant Street, CBD, Cape Town
6	6402177	189	Cape Town	Salushi	25 Protea Road, Claremont, Cape Town
7	6401198	189	Cape Town	Origin Coffee Roasting	28 Hudson Street, De Waterkant, Cape T
8	6401054	189	Cape Town	Kloof Street House	30 Kloof Street, Gardens, Cape Town
9	6403291	189	Cape Town	Jerry's Burger Bar	5 Park Road, Kloof Street, Gardens, Cape
10	6403499	189	Cape Town	Active Sushi	32 Hudson Street, Mirage Building, Gree
11	6400191	189	Cape Town	Beluga	The Foundry, Prestwich Street, Green Pc
12	6404082	189	Cape Town	Rocomamas	107a Main Road, Green Point, Cape Tow
13	6401485	189	Cape Town	The Creamery	Newlands Quarter, Dean Street, Newlan
14	6400621	189	Cape Town	Nobu - One&Only	One & Only Hotel, Dock Road, V & A Wa
15	6403544	189	Cape Town	Jarryds	90 Regent Road, Sea Point, Cape Town
16	6403452	189	Cape Town	My Sugar	77 Regent Road, Sea Point, Cape Town
17	6402163	189	Cape Town	Grand Caf@ & Beach	Granger Bay Road, Granger Bay, V & A V
18	6401789	189	Cape Town	tashas	Ground Level, Victoria Wharf, V & A Wa
19	6400235	189	Cape Town	Gibson's Gourmet Burgers & Ribs	Shop 157, Lower Level, Victoria Wharf, \
20	6400217	189	Cape Town	Willoughby & Co.	Ground Level, Victoria Wharf, V & A Wa
21	6501534	189	Inner City	Cube - Tasting Kitchen	24 Albrecht Road, Maboneng Precinct, C
22					

File Home Insert Draw Design Layout References Mailings Review View Developer Help Tell me what you want to do

Power Query Editor

Table.ReplaceValue("#Replaced Value", "Cedar Rapids/Towa City", "Cedar Rapids", Replacer.ReplaceText, {"City"})

Queries [9]

- Zomato Africa
- Zomato Asia
- Country Master
- Zomato Europe
- KPls
- Zomato NAM
- Zomato Oceania
- Zomato SAM
- Cuisine

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

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3. Remove any columns that aren't being used

Power Query Editor

File Home Transform Add Column View Tools Help

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

Queries [9]

Table.RemoveColumns(#"Renamed Columns",{"Locality", "Locality Verbose"})

	Restaurant ID	Country Code	City	Restaurant Name	Restaurant Address
1	18395463	189	Cape Town	The Butcher's Wife	15 Belgravia Road, Athlone, Cape Town
2	18337845	189	Cape Town	Coco Safar	Ground Floor, Cavendish Square, Claremont
3	6401732	189	Cape Town	La Parada	107 Bree Street, CBD, Cape Town
4	6401060	189	Cape Town	Jason Bakery	185 Bree Street, CBD, Cape Town
5	6400421	189	Cape Town	Truth Coffee	36 Buitenkant Street, CBD, Cape Town
6	6402177	189	Cape Town	Salushi	25 Protea Road, Claremont, Cape Town
7	6401198	189	Cape Town	Origin Coffee Roasting	28 Hudson Street, De Waterkant, Cape Town
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10	6403499	189	Cape Town	Active Sushi	32 Hudson Street, Mirage Building, Green Point, Cape Town
11	6400191	189	Cape Town	Beluga	The Foundry, Prestwich Street, Green Point, Cape Town
12	6404082	189	Cape Town	Rocomamas	107a Main Road, Green Point, Cape Town
13	6401485	189	Cape Town	The Creamery	Newlands Quarter, Dean Street, Newlands, Cape Town
14	6400621	189	Cape Town	Nobu - One&Only	One & Only Hotel, Dock Road, V & A Waterfront, Cape Town
15	6403544	189	Cape Town	Jarryds	90 Regent Road, Sea Point, Cape Town
16	6403452	189	Cape Town	My Sugar	77 Regent Road, Sea Point, Cape Town
17	6402163	189	Cape Town	Grand Caf@ & Beach	Granger Bay Road, Granger Bay, V & A Waterfront, Cape Town
18	6401789	189	Cape Town	tashas	Ground Level, Victoria Wharf, V & A Waterfront, Cape Town
19	6400235	189	Cape Town	Gibson's Gourmet Burgers & Ribs	Shop 157, Lower Level, Victoria Wharf, V & A Waterfront, Cape Town
20	6400217	189	Cape Town	Willoughby & Co.	Ground Level, Victoria Wharf, V & A Waterfront, Cape Town
21	6501534	189	Inner City	Cube - Tasting Kitchen	24 Albrecht Road, Maboneng Precinct, City and Suburban, Inner City

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

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#### 4. Create two columns to display the Restaurant Name and Restaurant Address

Power Query Editor

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Queries [9]

Table.SplitColumn(#"Appended Query", "Restaurant Name,Address", Splitter.SplitTextByEachDelimiter({" ",","},

	City	Restaurant Name,Address.1	Restaurant Name,Address.2	Locality
1	Cape Town	The Butcher's Wife	15 Belgravia Road, Athlone, Cape Town	Athlone
2	Cape Town	Coco Safar	Ground Floor, Cavendish Square, Claremont, Cape Town	Cavendish Square, Claremont
3	Cape Town	La Parada	107 Bree Street, CBD, Cape Town	CBD
4	Cape Town	Jason Bakery	185 Bree Street, CBD, Cape Town	CBD
5	Cape Town	Truth Coffee	36 Buitenkant Street, CBD, Cape Town	CBD
6	Cape Town	Salushi	25 Protea Road, Claremont, Cape Town	Claremont
7	Cape Town	Origin Coffee Roasting	28 Hudson Street, De Waterkant, Cape Town	De Waterkant
8	Cape Town	Kloof Street House	30 Kloof Street, Gardens, Cape Town	Gardens
9	Cape Town	Jerry's Burger Bar	5 Park Road, Kloof Street, Gardens, Cape Town	Gardens
10	Cape Town	Active Sushi	32 Hudson Street, Mirage Building, Green Point, Cape Town	Green Point
11	Cape Town	Beluga	The Foundry, Prestwich Street, Green Point, Cape Town	Green Point
12	Cape Town	Rocomamas	107a Main Road, Green Point, Cape Town	Green Point
13	Cape Town	The Creamery	Newlands Quarter, Dean Street, Newlands, Cape Town	Newlands
14	Cape Town	Nobu - One&Only	One & Only Hotel, Dock Road, V & A Waterfront, Cape Town	One and Only Hotel, V & A Waterfront
15	Cape Town	Jarryds	90 Regent Road, Sea Point, Cape Town	Sea Point
16	Cape Town	My Sugar	77 Regent Road, Sea Point, Cape Town	Sea Point
17	Cape Town	Grand Caf@ & Beach	Granger Bay Road, Granger Bay, V & A Waterfront, Cape Town	V & A Waterfront
18	Cape Town	tashas	Ground Level, Victoria Wharf, V & A Waterfront, Cape Town	V & A Waterfront
19	Cape Town	Gibson's Gourmet Burgers & Ribs	Shop 157, Lower Level, Victoria Wharf, V & A Waterfront, Cape Town	Victoria Wharf, V & A Waterfront
20	Cape Town	Willoughby & Co.	Ground Level, Victoria Wharf, V & A Waterfront, Cape Town	Victoria Wharf, V & A Waterfront
21	Inner City	Cube - Tasting Kitchen	24 Albrecht Road, Maboneng Precinct, City and Suburban, Inner City	City and Suburban

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

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#### 5. Make a separate table for the list of the cuisines that each restaurant serves

Power Query Editor - gggggg

File Home Transform Add Column View Tools Help

Close & Apply New Recent Enter Data Data source settings Manage Parameters Refresh Preview Advanced Editor Choose Columns Remove Columns Keep Rows Remove Rows Sort Split Column Group By Data Type: Whole Number Use First Row as Headers Replace Values Merge Queries Append Queries Combine Files Combine Text Analytics Vision Azure Machine Learning AI Insights

Queries [9]

Table.SelectColumns(#"Replaced Value2",{"Restaurant ID", "Country Code", "Cuisines"})

	Restaurant ID	Country Code	Cuisines
1	18395463	189	Pizza
2	18337845	189	Cafe
3	6401732	189	Spanish
4	6401060	189	Cafe
5	6400421	189	Cafe
6	6402177	189	Japanese
7	6401198	189	Cafe
8	6401054	189	Mediterranean
9	6403291	189	Burger
10	6403499	189	Sushi
11	6400191	189	Seafood
12	6404082	189	Burger
13	6401485	189	Desserts
14	6400621	189	Japanese
15	6403544	189	Cafe
16	6403452	189	Cafe
17	6402163	189	Seafood
18	6401789	189	Cafe
19	6400235	189	Burger
20	6400217	189	Seafood
21	6501534	189	European
22	18339373	189	Tapas

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

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Query Settings

PROPERTIES

Name

Cuisine

APPLIED STEPS

Promoted Headers

Changed Type

Appended Query

Split Column by Delimiter

Changed Type1

Renamed Columns

Removed Columns

Split Column by Delimiter1

Changed Type2

Removed Columns1

Renamed Columns1

Added Custom

Removed Columns2

Replaced Value

Replaced Value1

Replaced Value2

Removed Other Columns

6. As it's a dimension table, the **Country-Code** table must only include unique and non-blank values

Power Query Editor - gggggg

File Home Transform Add Column View Tools Help

Close & Apply New Recent Enter Data Data source settings Manage Parameters Refresh Preview Advanced Editor Choose Columns Remove Columns Keep Rows Remove Rows Sort Split Column Group By Data Type: Whole Number Use First Row as Headers Replace Values Merge Queries Append Queries Combine Files Combine Text Analytics Vision Azure Machine Learning AI Insights

Queries [9]

Table.SelectRows(#"Added Conditional Column", each [Continent] <> null and [Continent] <> "")

	Country Code	Country	Continent
1	94	Indonesia	Asia
2	94	Indonesia	Asia
3	192	Sri Lanka	Asia
4	214	UAE	Asia
5	94	Indonesia	Asia
6	1	India	Asia
7	30	Brazil	South America
8	14	Australia	Oceania
9	208	Turkey	Asia
10	189	South Africa	Africa
11	1	India	Asia
12	216	United States	North America
13	215	United Kingdom	Europe
14	94	Indonesia	Asia
15	214	UAE	Asia
16	162	Philippines	Asia
17	215	United Kingdom	Europe
18	215	United Kingdom	Europe
19	166	Qatar	Asia
20	215	United Kingdom	Europe
21	14	Australia	Oceania
22	30	Brazil	South America

3 COLUMNS, 199 ROWS Column profiling based on top 1000 rows

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Query Settings

PROPERTIES

Name

Country Master

APPLIED STEPS

Source

Navigation

Promoted Headers

Changed Type

Added Conditional Column

Filtered Rows

1) Add a **Rating** color column in an appropriate table with the data rows in the format given below

Power Query Editor

File Home Transform Add Column View Tools Help

Close & Apply New Recent Enter Data Data source settings Manage Parameters Refresh Preview Advanced Editor Choose Remove Columns Keep Remove Rows Sort Split Column Group By Data Type: Whole Number Use First Row as Headers Replace Values Merge Queries Append Queries Combine Files Combine Text Analytics Vision Azure Machine Learning AI Insights

Queries [9]

- Zomato Africa
- Zomato Asia
- Country Master
- Zomato Europe
- KPIs**
- Zomato NAM
- Zomato Oceania
- Zomato SAM
- Cuisine

Table.AddColumn(#"Changed Type", "Custom", each if [Aggregate rating] >= 4.5 then "Dark Green" else if [Aggregate rating] >= 4 then "Green" else if [Aggregate rating] >= 3.5 then "Yellow" else if [Aggregate rating] >= 2.5 then "Orange" else if [Aggregate rating] >= 1.8 then "Red" else "White")

Delivery	Price range	Aggregate rating	Rating text	Votes	Custom
1		3	3.7 Good	22	Yellow
2		4	4.1 Very Good	88	Green
3		4	3.7 Good	255	Yellow
4		2	4.2 Very Good	266	Green
5		2	4.4 Very Good	514	Green
6		3	3.9 Good	239	Yellow
7		3	4 Very Good	185	Green
8		4	4.5 Excellent	356	Dark Green
9		3	4.4 Very Good	281	Green
10		3	3.8 Good	127	Yellow
11		4	3.8 Good	619	Yellow
12		3	3.6 Good	121	Yellow
13		2	4.5 Excellent	328	Dark Green
14		4	4 Very Good	110	Green
15		3	4.8 Excellent	319	Dark Green
16		2	4.4 Very Good	157	Green
17		4	3.8 Good	280	Yellow
18					

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

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Query Settings

PROPERTIES

Name

KPIs

All Properties

APPLIED STEPS

- Source
- Navigation
- Promoted Headers
- Changed Type
- Added Conditional Column**
- Renamed Columns

2) Create the following measures in the appropriate tables

- Restaurant count
- Average cost
- Average rating
- Cuisine count



g99999 - Power BI Desktop

File Home Help Table tools Column tools

Name Cuisine Count Format Whole number Summarization Sum

Data type Whole number \$ % 0 Data category Uncategorized

Structure Formatting Properties

Sort by column Sort Data groups Groups Manage relationships Relationships New column Calculations

1 Cuisine Count = LEN(TRIM('Zomato Africa'[Cuisines]))-LEN(SUBSTITUTE(TRIM('Zomato Africa'[Cuisines]),",",""))+1

Country Code	City	Longitude	Latitude	Restaurant Name	Restaurant Address	Cuisines	Cuisine Count
1	New Delhi	0	0	Rama Desi Ghee Meat Wala	IA, Block 10 C, Ashok Vihar Phase 1, New Delhi	North Indian	1
1	New Delhi	0	0	Roller's High	K-1/38, EPDP Road, Chittaranjan Park, New Delhi	North Indian	1
1	New Delhi	0	0	Tasty Tonight	Chittaranjan Park, New Delhi	North Indian	1
1	New Delhi	0	0	Food Nation	Shop 22, Market 1, Chittaranjan Park, New Delhi	North Indian	1
1	New Delhi	0	0	Delhi 6 Foods	3787, Netaji Subhash Marg, Daryaganj, New Delhi	North Indian	1
1	New Delhi	0	0	Taj Chicken Point	1205, Behind Delite Cinema, Daryaganj, New Delhi Daryaganj	North Indian	1
1	New Delhi	0	0	Wah Ji Wah	E-6, Jyoti Colony, 100 Feet Road, Durga Puri, New Delhi	North Indian	1
1	New Delhi	0	0	17 Degree Food Service	Shop 41/1, Hari Complex 304, Garhi, East of Kailash, New Delhi	North Indian	1
1	New Delhi	0	0	Sher-e-Punjab	76, 1st Floor, Amrit Puri, East of Kailash, New Delhi	North Indian	1
1	New Delhi	0	0	Uncle Sam	Ramesh Market, East of Kailash, New Delhi	North Indian	1
1	New Delhi	0	0	Brainfreezers	23/21-C, 1st Floor, Main Market, East Patel Nagar, New Delhi	North Indian	1
1	New Delhi	0	0	Panchratna Thali	Bodhrig Kohli Marg, Block 16, East Patel Nagar, New Delhi	North Indian	1
1	New Delhi	0	0	Nagepal Di Hatti	131, Sudh Bazar, Veer Savarkar Market, Gandhinagar, Near, Geeta Colony, New Delhi	North Indian	1
1	New Delhi	0	0	Baweja's Haandi	11/89, Near Kanchan Studio and Geeta Colony Police Station, Geeta Colony, New Delhi	North Indian	1
1	New Delhi	0	0	Issane Foods	Geeta Colony, New Delhi	North Indian	1
1	New Delhi	0	0	Parantha on Call	Geeta Colony, New Delhi	North Indian	1
1	New Delhi	0	0	Let's Tango	Shop C-107, Ground Floor, Green Park, New Delhi	North Indian	1
1	New Delhi	0	0	South Gate	C-18, Green Park, New Delhi	North Indian	1
1	New Delhi	0	0	Oh Boy Lounge	2527, Hudson Lane, 2nd Floor & Terrace, Delhi University, GTB Nagar, New Delhi	North Indian	1
1	New Delhi	0	0	Food Adda	Shop 2, DDA Market, Hudson Lane, GTB Nagar, New Delhi	North Indian	1
1	New Delhi	0	0	Spezia Deliveries	Hudson Lane, GTB Nagar, New Delhi	North Indian	1
1	New Delhi	0	0	Railway Yard	B-36/11, GT Karnal Road Industrial Area, Near Nanak Piao Gurudwara, Gujramwala Town, New Delhi	North Indian	1
1	New Delhi	0	0	Lal Dhaba	Plot B3, Kotla Road, ITO, New Delhi	North Indian	1
1	New Delhi	0	0	Svasti Cafe	Svasti Sankul, Gate 1, Indira Gandhi National Centre For The Arts, Janpath, New Delhi	North Indian	1
1	New Delhi	0	0	Pind Punjabi	16&17, Mount Kailash, Kailash Colony, New Delhi	North Indian	1
1	New Delhi	0	0	Food Master's Golley	Kailash Colony Main Road, Near Kailash Colony Metro Station, Kailash Colony, New Delhi	North Indian	1

Table: Zomato Africa (9,551 rows) Column: Cuisine Count (1 distinct values)

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File Home Help Table tools Measure tools

Name Restaurant count Format Whole number Data category Uncategorized

Home table Table \$ % 0

Structure Formatting Properties

1 Restaurant count = DISTINCTCOUNT(Cuisine[Restaurant ID])

Column

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File Home Help Table tools Measure tools

Name Average rating Format General Data category Uncategorized

Home table Table \$ % 0 Auto

Structure Formatting Properties

1 Average rating = AVERAGE(KPIs[Aggregate rating])

Column

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File Home Help Table tools Measure tools

Name Average cost Format General Data category Uncategorized

Home table Table \$ % 0 Auto

Structure Formatting Properties

1 Average cost = AVERAGE(KPIs[Average Cost for two])

Column

3) Create a new column in the **Country Code** table and name it “**Continent**” and create the values using the below-mentioned convention

Power Query Editor interface showing a query named "Country Master" with 3 columns (Country Code, Country, Continent) and 209 rows. The formula bar displays the M code for adding a "Continent" column based on "Country Code" values.

```

= Table.AddColumn(#"Changed Type", "Continent", each if [Country Code] = 191 then "Asia" else if [Country Code] = 1 then "Asia" else if [Country Code] = 94 then "Asia" else if [Country Code] = 214 then "Asia" else if [Country Code] = 208 then "Asia" else if [Country Code] = 162 then "Asia" else if [Country Code] = 166 then "Asia" else if [Country Code] = 184 then "Asia" else if [Country Code] = 30 then "South America" else if [Country Code] = 14 then "Oceania" else if [Country Code] = 148 then "Oceania" else if [Country Code] = 189 then "Africa" else if [Country Code] = 215 then "Europe" else if [Country Code] = 216 then "North America" else if [Country Code] = 37 then "North America" else "")

```

	Country Code	Country	Continent
1	94	Indonesia	Asia
2	94	Indonesia	Asia
3	null		null
4	191	Sri Lanka	Asia
5	214	UAE	Asia
6	94	Indonesia	Asia
7	1	India	Asia
8	30	Brazil	South America
9	null		null
10	14	Australia	Oceania
11	208	Turkey	Asia
12	189	South Africa	Africa
13	1	India	Asia
14	216	United States	North America
15	null		null
16	215	United Kingdom	Europe
17	94	Indonesia	Asia
18	214	UAE	Asia

3 COLUMNS, 209 ROWS. Column profiling based on top 1000 rows. PREVIEW DOWNLOADED AT 14:50

```

= Table.AddColumn(#"Changed Type", "Continent", each if [Country Code] = 191 then "Asia" else if [Country Code] = 1 then "Asia" else if [Country Code] = 94 then "Asia" else if [Country Code] = 214 then "Asia" else if [Country Code] = 208 then "Asia" else if [Country Code] = 162 then "Asia" else if [Country Code] = 166 then "Asia" else if [Country Code] = 184 then "Asia" else if [Country Code] = 30 then "South America" else if [Country Code] = 14 then "Oceania" else if [Country Code] = 148 then "Oceania" else if [Country Code] = 189 then "Africa" else if [Country Code] = 215 then "Europe" else if [Country Code] = 216 then "North America" else if [Country Code] = 37 then "North America" else "")

```

**Note:** The mapping is continent - country, for example "Africa – South Africa"