

Data Manipulation and Reporting with Power BI

DESCRIPTION

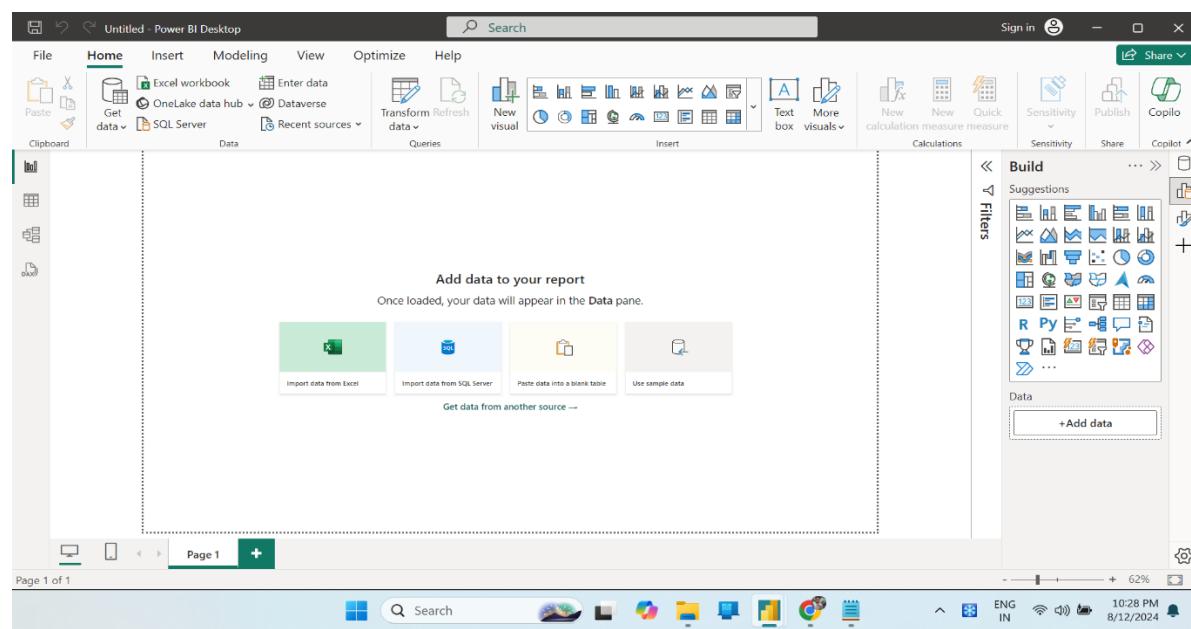
Zomato is a restaurant aggregation and meal delivery service based in India. It is currently operating in several countries across the world. Zomato provides thorough information about numerous eateries as well as consumer reviews. Zomato's owners aim to find hidden irregularities in their company's data. The ultimate goal of this project is to examine the data in such a way that they can accurately assess their business performance.

Aim of the project:

The aim is to construct a consolidated and interactive PowerBI report that will allow Zomato to quickly assess the required data.

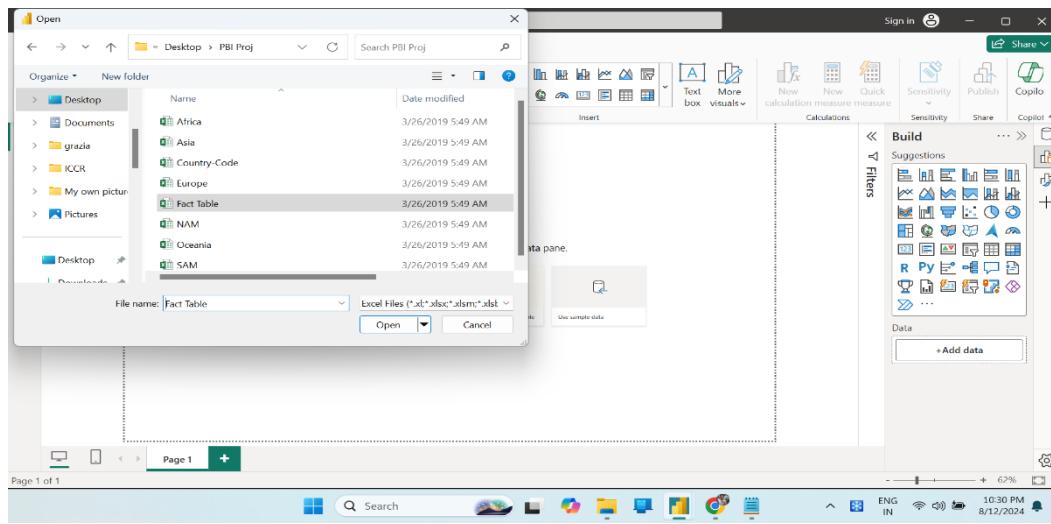
Steps:

Open PowerBI Desktop



Import the data from all available Excel files.

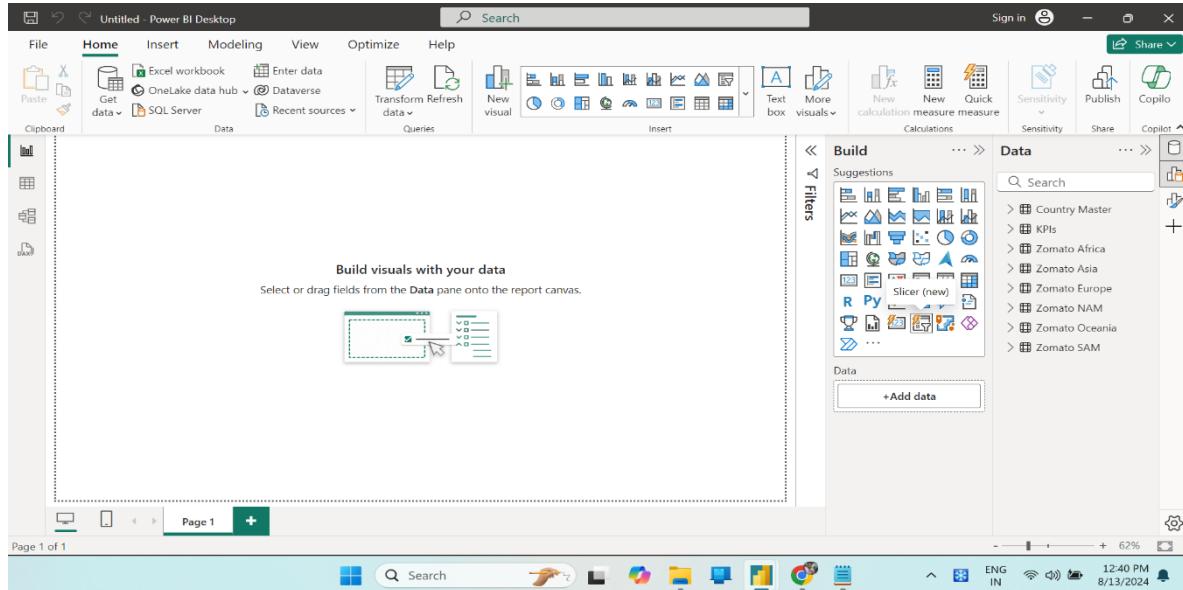
- Click on 'Get data' or 'Import data from Excel' and browse the file.
- Select the required excel file and click on 'Open'.



- A ‘Navigator’ window gets opened with the selected excel file.
- Click on the check box of the excel file.
- Load and Transform will get activated.
- Preview the file on the right side of the window.
- If the data looks good, then click on ‘Load’.

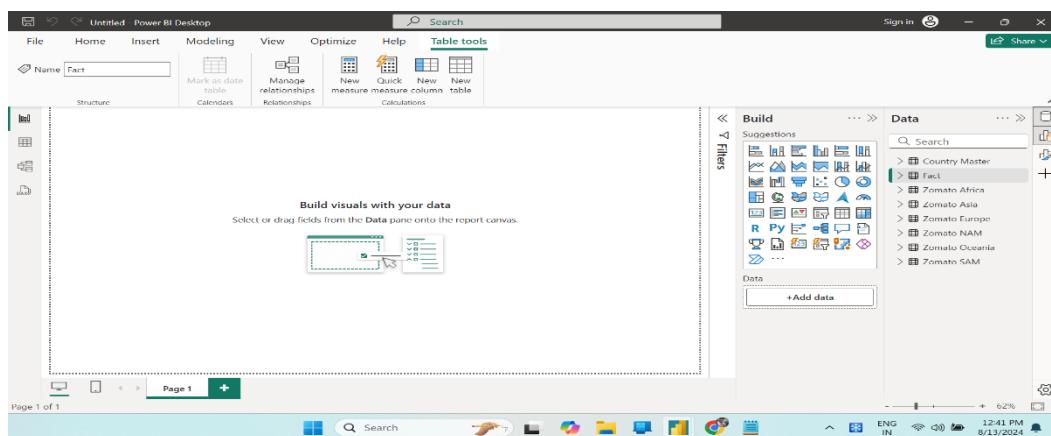
Restaurant ID	Country Code	City	Restaurant Name,Address
18337845	189	Cape Town	The Butcher's Wife,15 Belgrave Rd, Cape Town, South Africa
18337845	189	Cape Town	Coco Safari,Ground Floor, Cavendish Square, Cape Town, South Africa
6401732	189	Cape Town	La Parada,107 Bree Street,CBD, Cape Town, South Africa
6401060	189	Cape Town	Jason Bakery,185 Bree Street,CBD, Cape Town, South Africa
6400421	189	Cape Town	Truth Coffee,36 Buitenkant Street, Cape Town, South Africa
6402177	189	Cape Town	Selushi,25 Protea Road, Claremont, Cape Town, South Africa
6401198	189	Cape Town	Origin Coffee Roasting,28 Hudson Street, Cape Town, South Africa
6401054	189	Cape Town	Kloof Street House,30 Kloof Street, Cape Town, South Africa
6403291	189	Cape Town	Jerry's Burger Bar,5 Park Road, Kildonan, Cape Town, South Africa
6403499	189	Cape Town	Active Sushi,32 Hudson Street, Milnerton, Cape Town, South Africa
6400191	189	Cape Town	Beluga,The Foundry, Prestwich Street, Cape Town, South Africa
6404082	189	Cape Town	Rocomamas,107a Main Road, Green Point, Cape Town, South Africa
6401485	189	Cape Town	The Creamery,Newlands Quarter, Nobu - One&Only,One & Only Hotel, Cape Town, South Africa
6400621	189	Cape Town	Jarryds,90 Regent Road, Sea Point, Cape Town, South Africa
6403544	189	Cape Town	My Sugar,77 Regent Road, Sea Point, Cape Town, South Africa
6403452	189	Cape Town	Grand Caffè & Beach,Granger Bay, Cape Town, South Africa
6402163	189	Cape Town	Tashes,Ground Level, Victoria Wharf, Cape Town, South Africa
6401789	189	Cape Town	Gibson's Gourmet Burgers & Ribs, Willoughby & Co,Ground Level, Victoria Wharf, Cape Town, South Africa
6400235	189	Cape Town	Cube - Tasting Kitchen,24 Allredchapel Street, Cape Town, South Africa
6400217	189	Inner City	Urbanologi,1 Fox Street, Marshalltown, Cape Town, South Africa
6501534	189	Inner City	Urbanologi,1 Fox Street, Marshalltown, Cape Town, South Africa
18338373	189	Inner City	Urbanologi,1 Fox Street, Marshalltown, Cape Town, South Africa

- Loading all the data by following the same above process.
- After loading all the data, loaded excel files can be shown in the ‘Fields’ section.



Data Transformation

- Rename ‘KPIs’ table as ‘Fact’ table for easy understanding as it is the fact table.
- Check all the loaded excel file and needed transformation on the data to be done.
- Check all the tables ‘Zomato Asia’, ‘Zomato Africa’, ‘Zomato Europe’, ‘Zomato Oceania’, ‘Zomato NAM’, ‘Zomato SAM’ whether ‘City’ is correct or not.
- Incorrect city names need to be corrected.
- Click on ‘Data’ view for checking if there are any incorrect ‘City’ names.



To ‘Load’ the correct data into PowerBI, first data need to be transformed.

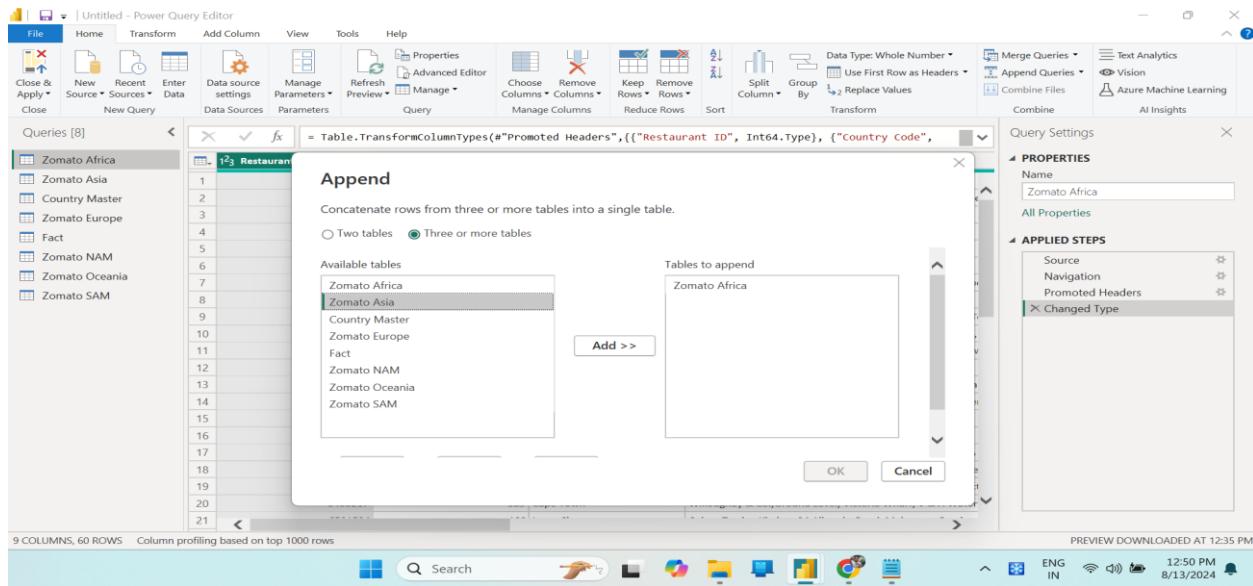
Table: Zomato Asia (8,849 rows)

- A new window ‘Power Query Editor’ will be opened as below:

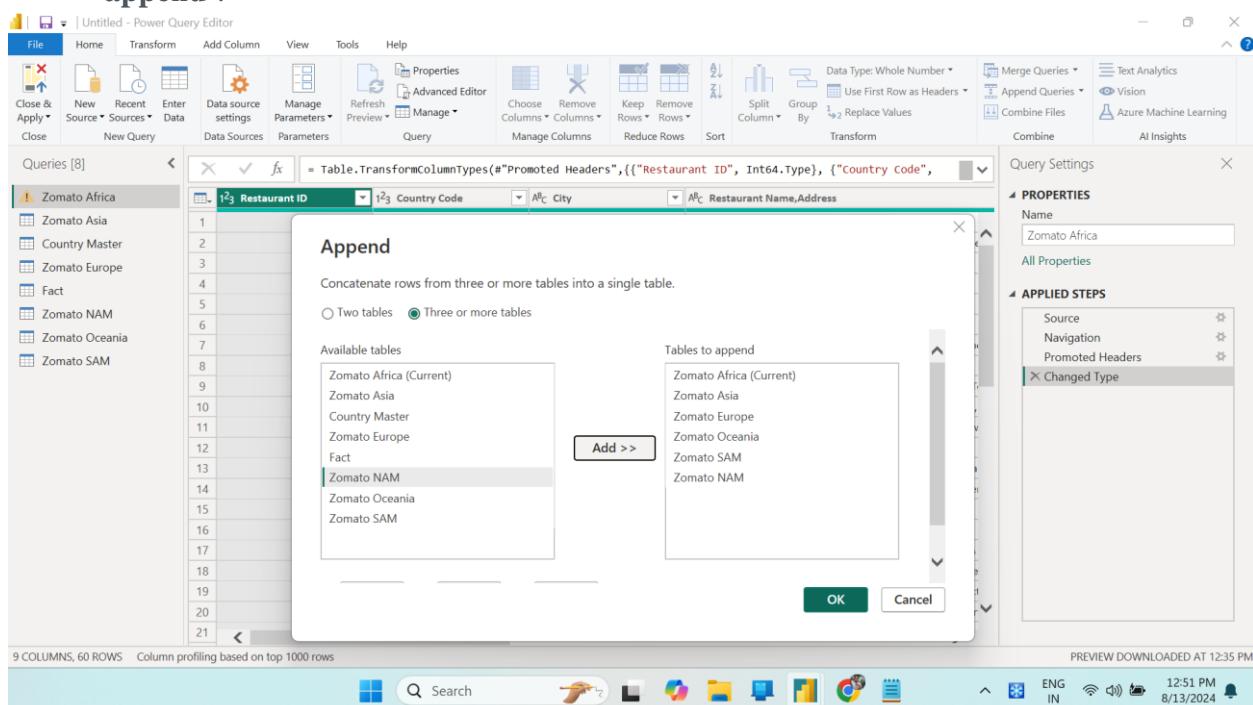
Creating a table:

- Combine all different country tables into one single table as all the tables have common column names.
- Creating separate table of all different country tables.
- APPEND:** Sandwiches the data one after another.
- In ‘Power Query Editor’, ‘Home’ tab – ‘Append Queries’
 - select ‘Append Queries as New’.

- ‘Append’ window gets opened with options ‘Two tables’ and ‘Three or more tables’.
- As we loaded ‘Zomato Africa’ first into PowerBI, it will be displayed as ‘First table’.
- As we have six tables here, select ‘Three or more tables’.
- Now all the available tables will be displayed here.
- As we already have ‘Zomato Africa’ as first table, all other country tables need to append.
- Select ‘Zomato Asia’ from the ‘Available tables’ – click on ‘Add’.



- ‘Zomato Asia’ added to ‘Zomato Africa’ in ‘Tables to append’.
- Select the remaining tables ‘Zomato Europe’, ‘Zomato NAM’, ‘Zomato Oceania’, ‘Zomato SAM’ each one by one and add one by one to ‘Tables to append’.



- All the country tables are added to ‘Tables to append’.
- Click ‘OK’.
- A new table is created with name ‘Append1’.
- Right click on ‘Append1’ to rename it.
- Select ‘Rename’ and name it as ‘Zomato Global’.

The screenshot shows the Power Query Editor interface with the 'Combine' step selected. The 'Applied Steps' pane on the right shows the step: 'Source' → 'Combine'. The 'Properties' pane shows the table is named 'Append1'. The main area displays a preview of the combined data from five tables: Zomato Africa, Zomato Asia, Country Master, Zomato Europe, and Fact. The preview table has columns: Restaurant ID, Country Code, City, and Restaurant Name, Address. The preview shows 999+ rows of data from various locations like Cape Town, Athlone, and Clarendon.

- In ‘Zomato SAM’ table, City name ‘Sífo Paulo’ is incorrect and to be corrected as ‘Sao Paulo’.
- Right click on the ‘City’ column in ‘Zomato SAM’ table and select ‘Replace Values’.
- Fill ‘Values to Find’ as ‘Sífo Paulo’ and ‘Replace With’ as ‘Sao Paulo’.
- Click ‘OK’.

The screenshot shows the Power Query Editor with the 'Replace Values' dialog box open over the 'Zomato Global' table. The dialog box has 'Value To Find' set to 'Sífo Paulo' and 'Replace With' set to 'Sao Paulo'. The 'OK' button is highlighted. The 'Applied Steps' pane shows the previous 'Combine' step, and the 'Properties' pane shows the table is now named 'Zomato Global'. The main area shows the updated data with 'Sífo Paulo' replaced by 'Sao Paulo' in the City column.

- ‘Sí£o Paulo’ is replaced as ‘Sao Paulo’.
- All the changes we apply to each table will be shown in ‘APPLIED STEPS’ section onthe right side of the window.
- ‘APPLIED FIELDS’ section is different for each table.

The screenshot shows the Power Query Editor interface. The main area displays a table with 21 rows, the first of which is highlighted. The 'Applied Steps' pane on the right shows a single step: 'Replaced Value'.

- ‘Cedar Rapids/Iowa City’ replaced as ‘Cedar Rapids’.

The screenshot shows the Power Query Editor interface with a 'Replace Values' dialog box open. The 'Value To Find' field contains 'Cedar Rapids/Iowa City' and the 'Replace With' field contains 'Cedar Rapids'. The 'Applied Steps' pane on the right shows 'Filtered Rows'.

- ‘ÜÁstanbul’ replaced as ‘Istanbul’.

Queries [9]

Replace Values

Replace one value with another in the selected columns.

Value To Find: ÜÁstanbul

Replace With: Istanbul

OK Cancel

APPLIED STEPS

Name: Zomato Global

Source: Replaced Value
Replaced Value
Filtered Rows
Replaced Value1

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

Queries [9]

Replace Values

Value To Find: ÜÁstanbul

Replace With: Istanbul

OK Cancel

APPLIED STEPS

Name: Zomato Global

Source: Replaced Value
Replaced Value
Filtered Rows
Replaced Value1
Replaced Value2

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

Column Split

- Create two columns to display the **Restaurant Name** and **Restaurant Address**:
- In this ‘Our Presence’ table, ‘**Restaurant Name** and **Restaurant Address**’ are in same column ‘**Restaurant Name,Address**’.
- ‘**Restaurant Name,Address**’ need to be separated into two different columns.
- We use ‘**Split Columns**’ option for separating them.

- Right click on ‘Restaurant Name,Address’ column, select ‘Split Columns’ – ByDelimiter (or)
- select ‘Restaurant Name,Address’ column, go to ‘Home’ tab – select ‘Split Columns’
- By Delimiter.

The screenshot shows the Power Query Editor interface. A context menu is open over the 'Longitude' column, specifically under the 'Transform' tab. The 'Split Columns' option is highlighted. The 'Applied Steps' pane on the right lists the 'Removed Columns' step, which includes the 'Source' and 'Replaced Value' applied steps.

The screenshot shows the Power Query Editor interface with the 'Split Column by Delimiter' dialog box open. The 'Delimited' tab is selected, and the 'Comma' delimiter is chosen. The 'OK' button is highlighted. The 'Applied Steps' pane on the right lists the 'Removed Columns' step, which includes the 'Source', 'Replaced Value', 'Filtered Rows', 'Replaced Value1', and 'Replaced Value2' applied steps.

- Rename ‘Restaurant Name,Address.1’ as ‘Restaurant Name’, and ‘Restaurant Name,Address.2’ as ‘Restaurant Address’.
- All the steps in ‘Power Query Editor’ applied to each table will be showed in ‘APPLIEDSTEPS’.

Untitled - Power Query Editor

File Home Transform Add Column View Tools Help

Close & Apply New Source Recent Data Data source settings Manage Parameters Refresh Preview Manage Choose Columns Remove Columns Keep Rows Remove Rows Sort Data Type: Text Use First Row as Headers

Close New Query Data Sources Parameters Query Manage Columns Transform

Queries [9]

Zomato Africa
Zomato Asia
Country Master
Zomato Europe
Fact
Zomato NAM
Zomato Oceania
Zomato SAM
Zomato Global

City	Restaurant Name	Address
Cape Town	The Butcher's Wife	15 Belgrave Road, Athlone, C
Cape Town	Coco Safar	Ground Floor, Cavendish Squa
Cape Town	La Parada	107 Bree Street, CBD, Cape To
Cape Town	Jason Bakery	185 Bree Street, CBD, Cape To
Cape Town	Truth Coffee	36 Buitenkant Street, CBD, Ca
Cape Town	Salushi	25 Protea Road, Claremont, C
Cape Town	Origin Coffee Roasting	28 Hudson Street, De Waterka
Cape Town	Kloof Street House	30 Kloof Street, Gardens, Cap
Cape Town	Jerry's Burger Bar	5 Park Road, Kloof Street, Gar
Cape Town	Active Sushi	32 Hudson Street, Mirage Buil
Cape Town	Beluga	The Foundry, Prestwich Street
Cape Town	Rocomamas	107a Main Road, Green Point,
Cape Town	The Creamery	Newlands Quarter, Dean Street
Cape Town	Nobu - One&Only	One & Only Hotel, Dock Road,
Cape Town	Jarryds	90 Regent Road, Sea Point, Ca
Cape Town	My Sugar	77 Regent Road, Sea Point, Ca
Cape Town	Grand Caffi® & Beach	Granger Bay Road, Granger Ba
Cape Town	tashas	Ground Level, Victoria Wharf,
Cape Town	Gibson's Gourmet Burgers & Ribs	Shop 157, Lower Level, Victor
Cape Town	Willoughby & Co.	Ground Level, Victoria Wharf,

8 COLUMNS, 999+ ROWS Column profiling based on top 1000 rows PREVIEW DOWNLOADED AT 12:35 PM

Search ENG IN 10:09 PM 8/13/2024

Query Settings

PROPERTIES
Name: Zomato Global
All Properties

APPLIED STEPS

- Source
- Replaced Value
- Filtered Rows
- Replaced Value1
- Replaced Value2
- Removed Columns
- Split Column by Delimiter
- Changed Type**

Untitled - Power Query Editor

File Home Transform Add Column View Tools Help

Close & Apply New Source Recent Data Data source settings Manage Parameters Refresh Preview Manage Choose Columns Remove Columns Keep Rows Remove Rows Sort Data Type: Text Use First Row as Headers

Close New Query Data Sources Parameters Query Manage Columns Transform

Queries [9]

Zomato Africa
Zomato Asia
Country Master
Zomato Europe
Fact
Zomato NAM
Zomato Oceania
Zomato SAM
Zomato Global

City	Restaurant Name	Address
Cape Town	The Butcher's Wife	15 Belgrave Road, Athlone, C
Cape Town	Coco Safar	Ground Floor, Cavendish Squa
Cape Town	La Parada	107 Bree Street, CBD, Cape To
Cape Town	Jason Bakery	185 Bree Street, CBD, Cape To
Cape Town	Truth Coffee	36 Buitenkant Street, CBD, Ca
Cape Town	Salushi	25 Protea Road, Claremont, C
Cape Town	Origin Coffee Roasting	28 Hudson Street, De Waterka
Cape Town	Kloof Street House	30 Kloof Street, Gardens, Cap
Cape Town	Jerry's Burger Bar	5 Park Road, Kloof Street, Gar
Cape Town	Active Sushi	32 Hudson Street, Mirage Buil
Cape Town	Beluga	The Foundry, Prestwich Street
Cape Town	Rocomamas	107a Main Road, Green Point,
Cape Town	The Creamery	Newlands Quarter, Dean Street
Cape Town	Nobu - One&Only	One & Only Hotel, Dock Road,
Cape Town	Jarryds	90 Regent Road, Sea Point, Ca
Cape Town	My Sugar	77 Regent Road, Sea Point, Ca
Cape Town	Grand Caffi® & Beach	Granger Bay Road, Granger Ba
Cape Town	tashas	Ground Level, Victoria Wharf,
Cape Town	Gibson's Gourmet Burgers & Ribs	Shop 157, Lower Level, Victor
Cape Town	Willoughby & Co.	Ground Level, Victoria Wharf,

8 COLUMNS, 999+ ROWS Column profiling based on top 1000 rows PREVIEW DOWNLOADED AT 12:35 PM

Search ENG IN 10:09 PM 8/13/2024

Query Settings

PROPERTIES
Name: Zomato Global
All Properties

APPLIED STEPS

- Source
- Replaced Value
- Filtered Rows
- Replaced Value1
- Replaced Value2
- Removed Columns
- Split Column by Delimiter
- Renamed Columns**

The screenshot shows the Power Query Editor interface with the 'Zomato Global' table selected. The table contains 21 rows of data. The 'Applied Steps' pane on the right shows the 'Renamed Columns' step, which replaced the original column names with new ones. The status bar at the bottom indicates 'PREVIEW DOWNLOADED AT 12:35 PM'.

Creating separate table for cuisines

- A separate table for the list of the cuisines that each restaurant serves.
- Right click on 'Zomato Global' table, click on 'Duplicate'.

The screenshot shows the Power Query Editor interface with the 'Zomato Global (2)' table selected. The table now includes a 'Cuisines' column, which lists various cuisines served by the restaurants. The 'Applied Steps' pane on the right shows the 'Renamed Columns' step, which replaced the original column names with new ones. The status bar at the bottom indicates 'PREVIEW DOWNLOADED AT 12:35 PM'.

- Right click on 'Zomato Global (2)' table and rename as 'Cuisines'.

The screenshot shows the Microsoft Power Query Editor interface. The main area displays a table with the following columns and data:

	Restaurant ID	Country Code	City	Restaurant Name	Restaurant Address
1	18395463	189	Cape Town	The Butcher's Wife	15 Belgrave Road, Athlone, Cape Town
2	18337845	189	Cape Town	Coco Safari	Ground Floor, Cavendish Square, Claremont, Cape Town
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, 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, Cape Town
10	6403499	189	Cape Town	Active Sushi	32 Hudson Street, Miramar, 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 Caffè & 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					

The 'Cuisines' column is highlighted with a red selection bar. The 'APPLIED STEPS' pane shows the 'Renamed Columns' step, which has been applied to the 'Cuisines' column. The status bar at the bottom right indicates 'PREVIEW DOWNLOADED AT 12:35 PM'.

- Select all the columns except 'Restaurant ID' and 'Cuisines' using **ctrl** i.e., **ctrl + click** on the column header.

The screenshot shows the Microsoft Power Query Editor interface. The main area displays the same table as the previous screenshot, but the 'Cuisines' column is no longer highlighted. The 'APPLIED STEPS' pane shows the 'Renamed Columns' step, which has been applied to the 'Cuisines' column. The status bar at the bottom right indicates 'PREVIEW DOWNLOADED AT 12:35 PM'.

- After selecting the columns to delete, from 'Home' tab – **Remove Columns** –**Remove Columns**. Click on it.
- All the columns except 'Restaurant ID' and 'Cuisines' gets deleted. This is 'Cuisines' table.

Untitled - Power Query Editor

File Home Transform Add Column View Tools Help

Closes & Apply Close New Source Recent Data Data source settings Manage Parameters Refresh Preview Manage Choose Columns Remove Rows Keep Rows Group By Data Type: Text Use First Row as Headers Split Column Manage Columns Reduce Rows Sort Transform

Queries [10]

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

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

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Now, separate the Cuisines Name:

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File Home Transform Add Column View Tools Help

Closes & Apply Close New Source Recent Data Data source settings Manage Parameters Refresh Preview Manage Choose Columns Remove Rows Keep Rows Group By Data Type: Text Use First Row as Headers Split Column Manage Columns Reduce Rows Sort Transform

Queries [10]

Cuisines

1 18395463 Pizza, Grill
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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

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

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Here, See the separate list of the Cuisines:

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Queries [10]

Cuisines

	Restaurant ID	Cuisines
1	18395463	Pizza
2	18395463	Grill
3	18337845	Cafe
4	18337845	Patisserie
5	6401732	Spanish
6	6401732	Tapas
7	6401060	Cafe
8	6401060	Bakery
9	6400421	Cafe
10	6402177	Japanese
11	6402177	Sushi
12	6402177	Asian
13	6401198	Cafe
14	6401198	Bakery
15	6401198	Tea
16	6401198	Vegetarian
17	6401054	Mediterranean
18	6403291	Burger
19	6403291	American
20	6403499	Sushi
21	6400191	Seafood

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

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Use Trim to remove the spaces.

Untitled - Power Query Editor

Queries [10]

Cuisines

	Restaurant ID	Cuisines
1	18395463	Pizza
2	18395463	Grill
3	18337845	Cafe
4	18337845	Patisserie
5	6401732	Spanish
6	6401732	Tapas
7	6401060	Cafe
8	6401060	Bakery
9	6400421	Cafe
10	6402177	Japanese
11	6402177	Sushi
12	6402177	Asian
13	6401198	Cafe
14	6401198	Bakery
15	6401198	Tea
16	6401198	Vegetarian
17	6401054	Mediterranean
18	6403291	Burger
19	6403291	American
20	6403499	Sushi
21	6400191	Seafood

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

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Removing duplicates and null values

- ‘Country Master’ table must only include **unique and non-blank values**.
- This is actual ‘Country Master’ table.

Queries [10]

	Country Code	Country
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	2	India
14	216	United States
15	null	null
16	215	United Kingdom
17	94	Indonesia
18	214	UAE
19	162	Phillipines
20	215	United Kingdom
21	215	United Kingdom

2 COLUMNS, 209 ROWS Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 12:36 PM

- From this, ‘null’ values need to be deleted and it should contain only unique values.
- Ctrl + A** selects entire table. **Right click** – click on ‘Remove Duplicate’.

Queries [10]

	Country Code	Country
1	94	Indonesia
2	94	Indonesia
3	null	
4	191	Sri Lanka
5	214	UAE
6	94	Indonesia
7	1	India
8	30	Brazil
9	null	
10	14	Australia
11	208	Turkey
12	189	South Africa
13	1	India
14	216	United States
15	null	
16	215	United Kingdom
17	94	Indonesia
18	214	UAE
19	162	Phillipines
20	215	United Kingdom
21	215	United Kingdom

2 COLUMNS, 209 ROWS Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 12:36 PM

- Duplicate values removed.

The screenshot shows the Power Query Editor interface. A query named "Country Code" is selected. The preview pane displays 16 rows of data, including "Indonesia", "null", "Sri Lanka", "UAE", "India", "Brazil", "Australia", "Turkey", "South Africa", "United States", "United Kingdom", "Phillippines", "Qatar", "Canada", "New Zealand", and "Singapore". The "APPLIED STEPS" pane on the right lists a step named "Removed Duplicates". The status bar at the bottom indicates "PREVIEW DOWNLOADED AT 12:36 PM" and shows system icons for battery, signal, and time.

Removing 'null' values

- Click on filter of any column header.

The screenshot shows the Power Query Editor with a filter dialog open over the "Country Code" query. The filter dialog has a "Number Filters" section with a "Search" input field and a list of checked items: "(Select All)", "(null)", "1", "14", "30", "37", "94", "148", "162", "166", "184", "189", "191", and "208". The "APPLIED STEPS" pane on the right lists a step named "Removed Duplicates". The status bar at the bottom indicates "PREVIEW DOWNLOADED AT 12:36 PM" and shows system icons for battery, signal, and time.

- Uncheck ‘null’ to remove null values. Click ‘OK’.

The screenshot shows the Power Query Editor interface with the following details:

- File**: Untitled - Power Query Editor
- Transform** tab is selected.
- Queries [10]** pane shows a list of queries including 'Country Code' and 'Country'.
- Applied Steps** pane shows the steps taken: 'Source', 'Navigation', 'Promoted Headers', 'Changed Type', and 'Removed Duplicates'.
- Properties** pane shows the query is named 'Country Code'.
- Transform ribbon** includes 'Data Type: Whole Number', 'Use First Row as Headers', 'Sort', 'Transform', and other tools.
- Table View** shows the 'Country' column with rows: Indonesia, null, Sri Lanka, UAE, India, Brazil, Australia, Turkey, South Africa, United States, United Kingdom, Philippines, Qatar, Canada, New Zealand, Singapore.
- Filter Dialog** is open, showing a dropdown for 'A#_Country' with 'null' checked. Below it is a list of country codes: (Select All), (null), 1, 14, 30, 37, 94, 148, 162, 166, 184, 189, 191, 199.
- Buttons**: OK and Cancel.
- System Bar**: PREVIEW DOWNLOADED AT 12:36 PM, ENG IN, 3:04 PM, 8/13/2024.

- All duplicates and null values are deleted.

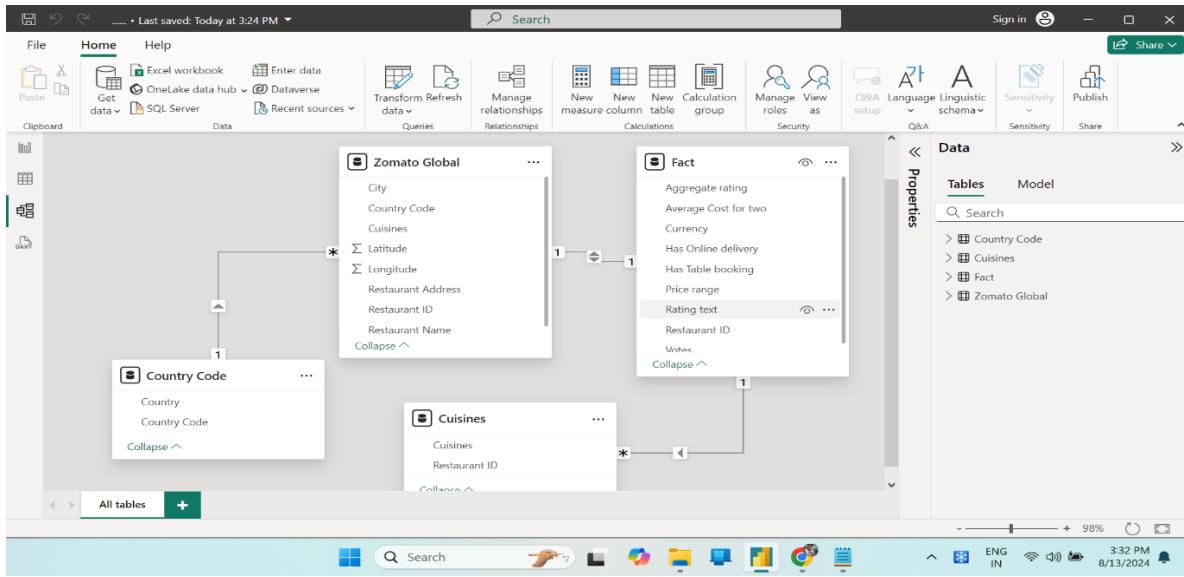
The screenshot shows the Power Query Editor interface with the following details:

- File**: Untitled - Power Query Editor
- Transform** tab is selected.
- Queries [10]** pane shows a list of queries including 'Country Code'.
- Applied Steps** pane shows the steps taken: 'Source', 'Navigation', 'Promoted Headers', 'Changed Type', 'Removed Duplicates', and 'Filtered Rows'.
- Properties** pane shows the query is named 'Country Code'.
- Transform ribbon** includes 'Data Type: Whole Number', 'Use First Row as Headers', 'Sort', 'Transform', and other tools.
- Table View** shows the 'Country Code' column with rows: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, followed by 'A#_Country' column with rows: Indonesia, Sri Lanka, UAE, India, Brazil, Australia, Turkey, South Africa, United States, United Kingdom, Philippines, Qatar, Canada, New Zealand, Singapore.
- System Bar**: PREVIEW DOWNLOADED AT 12:36 PM, ENG IN, 3:04 PM, 8/13/2024.

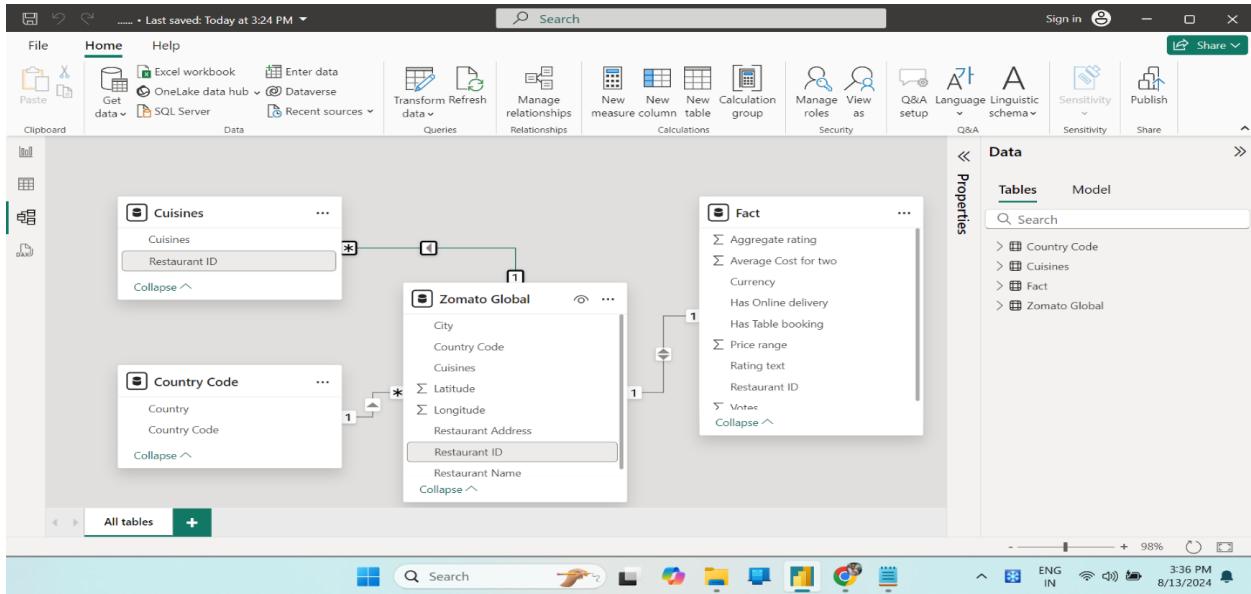
- Click on ‘Close & Apply’ to ‘Close the Query Editor window and apply any pending changes’.

Data modelling

- Instead of connecting all different country table to ‘Fact’ table, ‘Our Presence’ connected to ‘Zomato Global’ table as it contains all countries information.



- Connect ‘Cuisines’ table to ‘Zomato Global’ table by drag and dropping ‘Restaurant ID’ column from ‘Cuisines’ table to ‘Zomato Global’ table.
- Connect ‘Country Code’ table to ‘Zomato Global’ table by drag and dropping ‘Country Code’ column from ‘Country Code’ table to ‘Zomato Global’ table.
- ‘Country Code’ column from ‘Country Code’ table to ‘Zomato Global’ table.



DAX steps:

New Column

- Add a **Rating color** column in an appropriate table with the data rows.
- Adding new column ‘Rating Color’ to ‘Fact’ table.
- Right click on the table in which new column need to be created – ‘New Column’ OR
- Select the table from fields section, ‘Home, tab – ‘New Column’.
- Code for creating “Rating Color” is:

The screenshot shows the Power BI Desktop interface with the 'Table tools' ribbon selected. The 'Fact' table is currently open, displaying a list of restaurant data. The 'Data' pane on the right side of the screen lists several DAX functions and table relationships, such as 'Country Code', 'Cuisines', 'Fact', 'Restaurant Global', 'City', 'Country Code', 'Cuisines', 'Latitude', 'Longitude', 'Restaurant Address', 'Restaurant ID', and 'Restaurant Name'. The status bar at the bottom indicates the time as 3:40 PM and the date as 8/13/2024.

- Created ‘Rating Color’ column is:

The screenshot shows the Power BI Desktop interface with the 'Column tools' ribbon selected. A specific column, 'Rating Color', is highlighted in the table, and its DAX formula is displayed in the formula bar: `1 Rating Color = IF('Fact'[Aggregate rating] = 0, "Not Rated", IF('Fact'[Aggregate rating] <=2.9, "Red", IF('Fact'[Aggregate rating] <=3.9, "Yellow", IF('Fact'[Aggregate rating] <=4.4, "Green", IF('Fact'[Aggregate rating] >=4.5, "Dark Green", "Other")))))`. The 'Data' pane on the right side of the screen lists the same tables as the previous screenshot. The status bar at the bottom indicates the time as 3:50 PM and the date as 8/13/2024.

Measures:

- **Restaurant count**
- Count of restaurants from ‘Zomato Global’ table.

The screenshot shows the Power BI desktop interface with the Zomato Global dataset loaded. The ribbon at the top is set to 'Column tools'. The main area displays a table of restaurant addresses and their coordinates, with a calculated column 'Restaurant Count' showing the value 9551. The ribbon also includes sections for 'Structure', 'Formatting', 'Properties', 'Sort', 'Data groups', 'Relationships', and 'Calculations'. A 'Data' pane on the right lists various columns and measures available in the model.

Restaurant Address	Longitude	Latitude	Cuisines	Restaurant Count
1st Floor, Alaknanda Market, Alaknanda, New Delhi	77.25118	28.52757	North Indian	9551
Shop 6, GF, Plot 2, NRI Colony, Alaknanda, New Delhi	77.2542022	28.533276	North Indian	9551
7 & 11, G-1, Raj Tower 1, Alaknanda Shopping Complex, Near Post Office, Alaknanda, New Delhi	77.2546954	28.525267	North Indian	9551
356 Narmada, Alaknanda, New Delhi	77.248174	28.526931	North Indian	9551
DDA Murga Market, Near Deep Cinema, Ashok Vihar Phase 1, New Delhi	77.1736345	28.6873066	North Indian	9551
Shop J-11/11, Sanjay Market, Opposite Nirni Colony, Ashok Vihar Phase 4, Near Ashok Vihar Phase 1, New Delhi	77.1724663	28.6802986	North Indian	9551
IA, Block 10 C, Ashok Vihar Phase 1, New Delhi	77.1724663	0	North Indian	9551
Ashok Vihar Phase 2, New Delhi	77.1799506	28.6965655	North Indian	9551
1, Pocket B, DDA Market, Ashok Vihar Phase 3, New Delhi	77.177678	28.6923511	North Indian	9551
Shop 23, NDMC Market, Babar Road, Near Bengal Market, Barakhamba Road, New Delhi	77.2297102	28.6302526	North Indian	9551
32, Basant Lok Market, Vasant Vihar, New Delhi	77.16416739	28.55803178	North Indian	9551
6, UG-64, Ansal Chamber 2, Bhikaji Cama Place, New Delhi	77.1883704	28.5680386	North Indian	9551
27, Satnam Park, Bhagat Singh Road, Chander Nagar, New Delhi	77.2820446	28.6555014	North Indian	9551
K-14, Bhagat Singh Road, Satnam Park, Chander Nagar, New Delhi	77.2822063	28.655449	North Indian	9551
H 1A, New Gobind Pura, Near, Chander Nagar, New Delhi	77.2822247	28.6512423	North Indian	9551
Ground Floor, Plot 482, Haveli Haider Quli, Near Andhra Bank, Chandni Chowk, New Delhi	77.224214	28.6564057	North Indian	9551
1984-1985, Gali Paranthi Wali, Chandni Chowk, New Delhi	77.2304115	28.6560115	North Indian	9551
376, Near Kucha Ghasi Ram, Chandni Chowk, New Delhi	77.2243841	28.6568732	North Indian	9551
187, Church Mission Road, Fatehpuri, Chandni Chowk, New Delhi	77.2231981	28.6578654	North Indian	9551
711, Church Mission Road, Fatehpuri, Chandni Chowk, New Delhi	77.2234955	28.658756	North Indian	9551

Average cost

- Average of ‘Average Cost for two’ from ‘Fact’ table.

The screenshot shows the Power BI desktop interface with the Fact dataset loaded. The ribbon at the top is set to 'Measure tools'. The main area displays a table of fact data, including columns like Restaurant ID, Average Cost for two, Currency, and various booking and delivery flags. A calculated measure 'Average Cost for two' is shown in the first row. The ribbon also includes sections for 'Structure', 'Formatting', 'Properties', 'Calculations', and a 'Data' pane on the right listing various measures and columns available in the model.

Restaurant ID	Average Cost for two	Currency	Has Table booking	Has Online delivery	Price range	Aggregate rating	Rating text	Vo
2004	4000	Indian Rupees(Rs.)	No	No	4	4.9	Excellent	
7001086	50	New Zealand(\$)	No	No	3	4.9	Excellent	
6801374	50	Pounds(£)	No	No	3	4.9	Excellent	
6127163	20	Pounds(£)	No	No	2	4.9	Excellent	
6114829	55	Pounds(£)	No	No	3	4.9	Excellent	
6174338	35	Pounds(£)	No	No	2	4.9	Excellent	
5927248	130	Turkish Lira(TL)	No	No	4	4.9	Excellent	
5901782	30	Turkish Lira(TL)	No	No	2	4.9	Excellent	
6004011	80	Turkish Lira(TL)	No	No	3	4.9	Excellent	
5800176	4000	Sri Lankan Rupee(LKR)	No	No	4	4.9	Excellent	
6202039	250	Qatari Rial(QR)	No	No	4	4.9	Excellent	
7417450	200000	Indonesian Rupiah(IDR)	No	No	3	4.9	Excellent	
7417455	200000	Indonesian Rupiah(IDR)	No	No	3	4.9	Excellent	
7420899	500000	Indonesian Rupiah(IDR)	No	No	3	4.9	Excellent	
7422633	200000	Indonesian Rupiah(IDR)	No	No	3	4.9	Excellent	
7300955	100	Brazilian Real(R\$)	No	No	4	4.9	Excellent	
208850	500	Emirati Diram(AED)	Yes	No	4	4.9	Excellent	
6600427	230	Brazilian Real(R\$)	No	No	4	4.9	Excellent	
18254160	500	Emirati Diram(AED)	Yes	No	4	4.9	Excellent	
18269368	760	Emirati Diram(AED)	Yes	No	3	4.9	Excellent	

Cuisine Count

- Count of cuisines from ‘Our Presence’ table.

The screenshot shows the Power BI Desktop interface. The ribbon is set to 'Table tools' > 'Measure tools'. A new measure named 'Cuisine Count' has been created, defined as `DISTINCTCOUNT(Cuisines[Cuisines])`. The Data pane on the right shows the structure of the 'Cuisines' table, which contains 19,719 rows and the 'Restaurant ID' column is currently selected. The status bar at the bottom indicates the table has 19,719 rows and 0 distinct values.

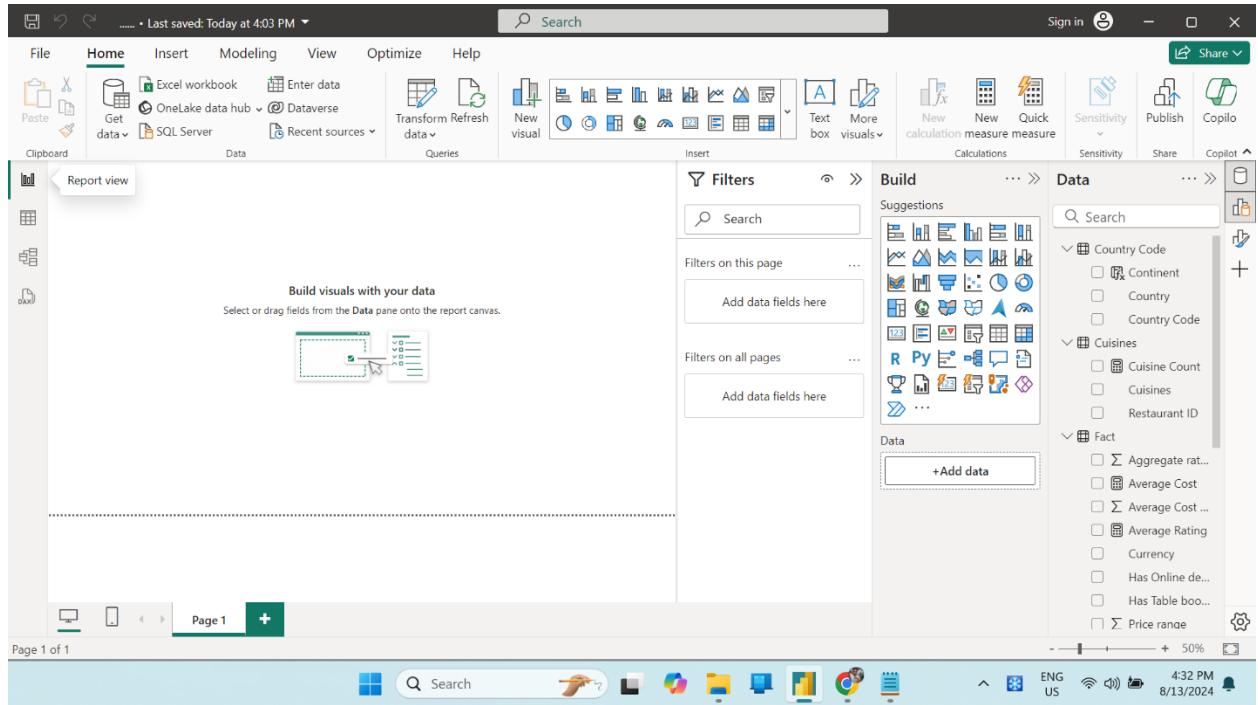
New Column

- Adding new column in the ‘Country Code’ table and name it as ‘Continent’ which maps ‘Country – Continent’.
- SWITCH:** Searches for a given value, once value is found maps given value with result value.

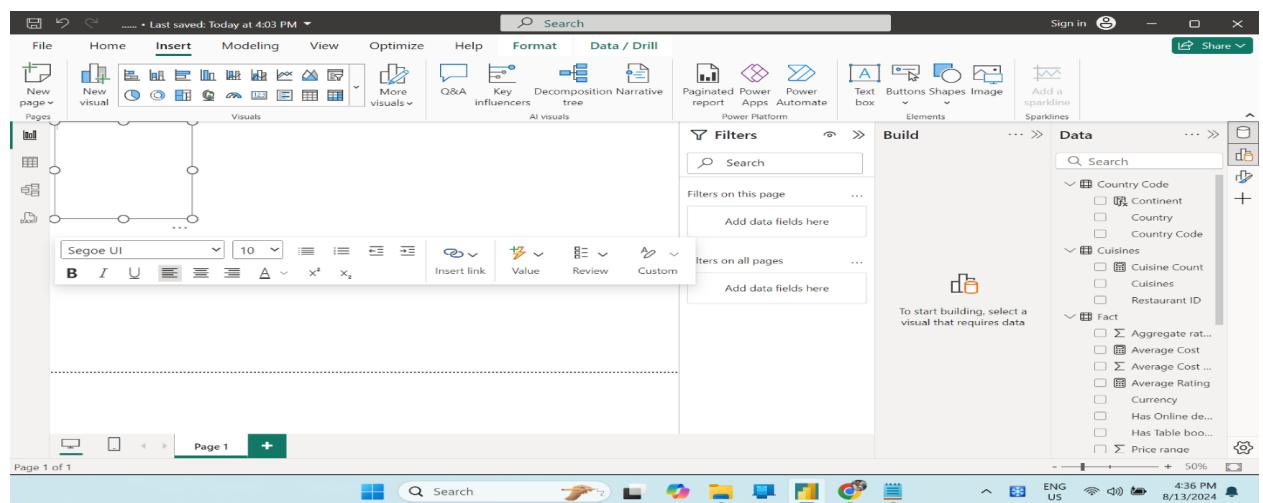
The screenshot shows the Power BI Desktop interface. The ribbon is set to 'Table tools' > 'Column tools'. A new column named 'Continent' is being added to the 'Country Code' table. The definition of the column is `Continent = SWITCH(TRIM('Country Code'[Country]), "South Africa", "Africa", "Phillipines", "Asia", "Singapore", "Asia", "UAE", "Asia", "India", "Asia", "Indonesia", "Asia", "Qatar", "Asia", "Sri Lanka", "Asia", "Turkey", "Asia", "United Kingdom", "Europe", "United States", "North America", "Canada", "North America", "Australia", "Oceania", "New Zealand", "Oceania", "Brazil", "South America")`. The Data pane on the right shows the 'Continent' column has 6 distinct values. The status bar at the bottom indicates the table has 15 rows and 6 distinct values.

Creating report

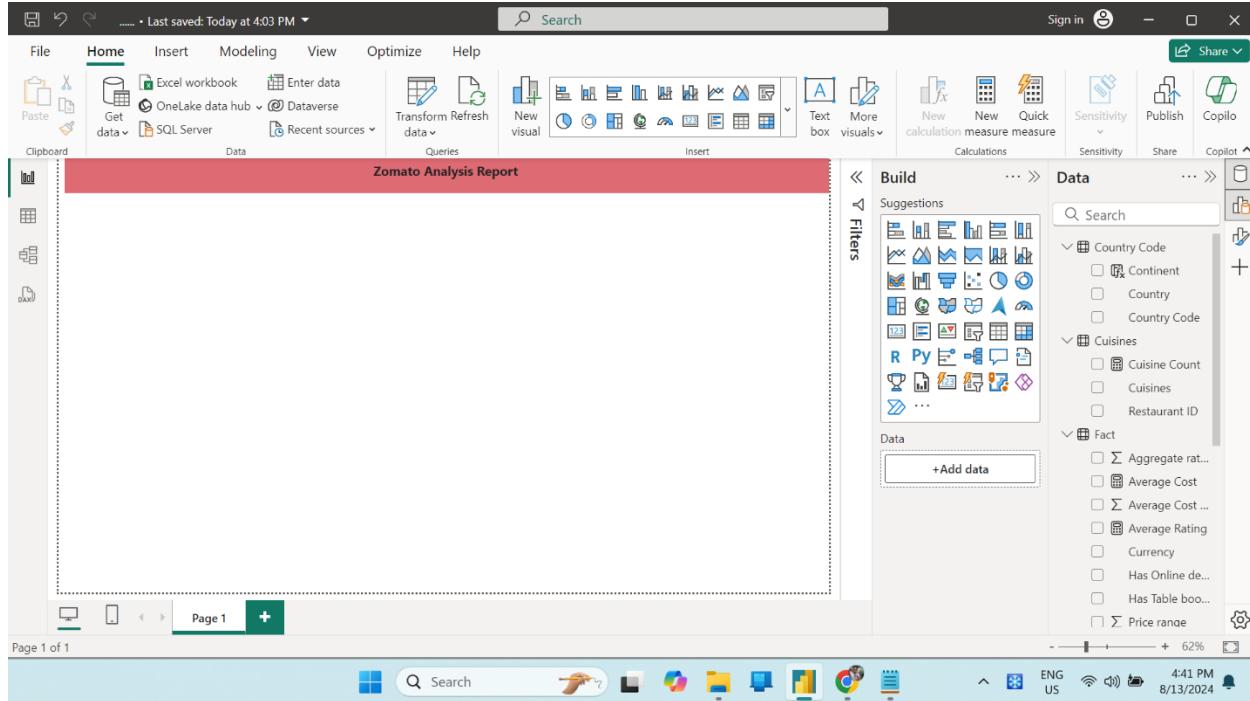
- Go to ‘Report’ view for creating interactive report.



- Under ‘**Insert**’ tab – select ‘**Text Box**’.
 - A text box will appear on Report and it is used as ‘**Title**’ of the report.



- Resize it, add title and background color to it by available formatting options on the right of the PowerBI desktop window.



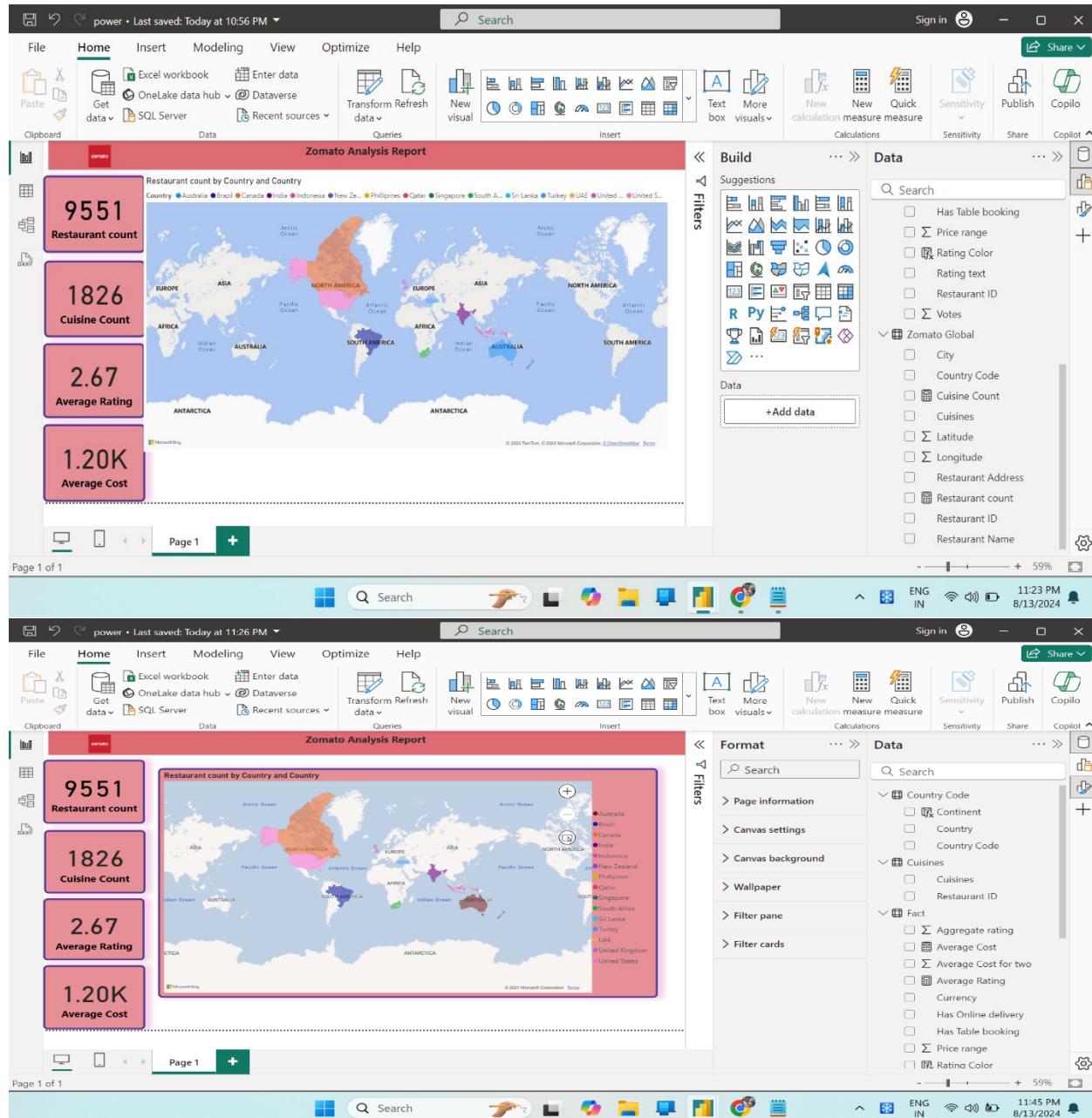
- **Adding image to title:**
- Under ‘Insert’ tab – select ‘Image’ to add image to report.
- Browse the image you want to insert. Select it and click on ‘Open’.
- After resizing the image, the report looks like:
- Select ‘Card’ visual from visualizations to display created measures.
- **Card Visual:** Displays single aggregate value.
- Drag and drop (or) click on **check box of ‘Restaurant Count’ measure** to the ‘Card’ visual.
- Resize the ‘Card’ visual according to requirement.
- Add remaining measures ‘Cuisine Count’, ‘Average Rating’ and ‘Average Cost’ measures to the report same as ‘Restaurant Count’.

The screenshot shows the Power BI Desktop interface. At the top, the ribbon has tabs like File, Home, Insert, Modeling, View, Optimize, and Help. The Home tab is selected. Below the ribbon, there's a toolbar with icons for Paste, Get data, Enter data, Transform Refresh data, New visual, Text box, More visuals, New calculation, New measure, Quick measure, Sensitivity, Publish, and Copilot. The main area displays a dashboard titled "Zomato Analysis Report" with four measures: "Restaurant count" (9551), "Cuisine Count" (1826), "Average Rating" (2.67), and "Average Cost" (1.20K). To the right of the dashboard is the "Data" pane, which lists fields from the "Zomato Global" data source, including City, Country Code, Cuisine Count, Cuisines, Latitude, Longitude, Restaurant Ad..., Restaurant co..., Restaurant ID, and Restaurant Na... . The bottom of the screen shows the Windows taskbar with various pinned icons.

- Each visual on the report can be formatted by the available options when we get after selecting the visual.
- Cuisine count can be formatted by ‘Format your Visual’ - Visual - Callout Value -
- Select required text style, font and color.
- After formatting, report looks like

This screenshot shows the same Power BI Desktop interface as the previous one, but with a specific visual formatted. The "Cuisine Count" measure has been selected, and its format properties are being applied. The visual now has a purple rounded rectangular border and a white background. The rest of the dashboard and the Power BI environment remain the same.

- Select ‘Map’ visual from visualization to the same ‘Page1’.
- To ‘Location’, drag and drop ‘Country’ from ‘Country Code’ table
- To ‘Legend’, drag and drop ‘Continent’ from ‘Country Code’ table which displays country names on top of the map.



- Adding Slicers to the Report

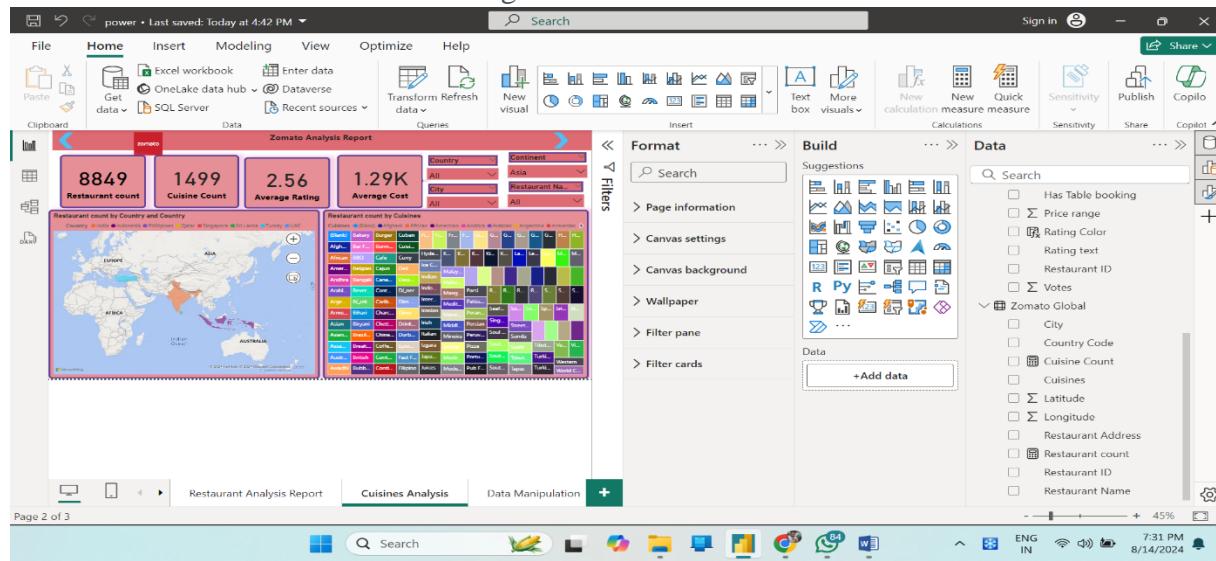
- Select ‘Slicer’ from the ‘Visualizations’.

The screenshot shows a Microsoft Power BI interface with a 'Zomato Analysis Report' dashboard. The dashboard includes four summary cards: 'Restaurant count' (9551), 'Cuisine Count' (1826), 'Average Rating' (2.67), and 'Average Cost' (1.20K). Below these is a world map titled 'Restaurant count by Country and Country'. A 'Slicer' is overlaid on the map, with the 'Filters' pane open, showing categories like 'Continent', 'Country', 'City', and 'Restaurant Name', all currently set to 'All'. To the right of the dashboard is a 'Format' ribbon and a 'Data' pane displaying a hierarchical list of fields from the 'Fact' table, such as 'Aggregate rating', 'Average Cost', and 'Rating Color'. The bottom of the screen shows a taskbar with various application icons and system status.

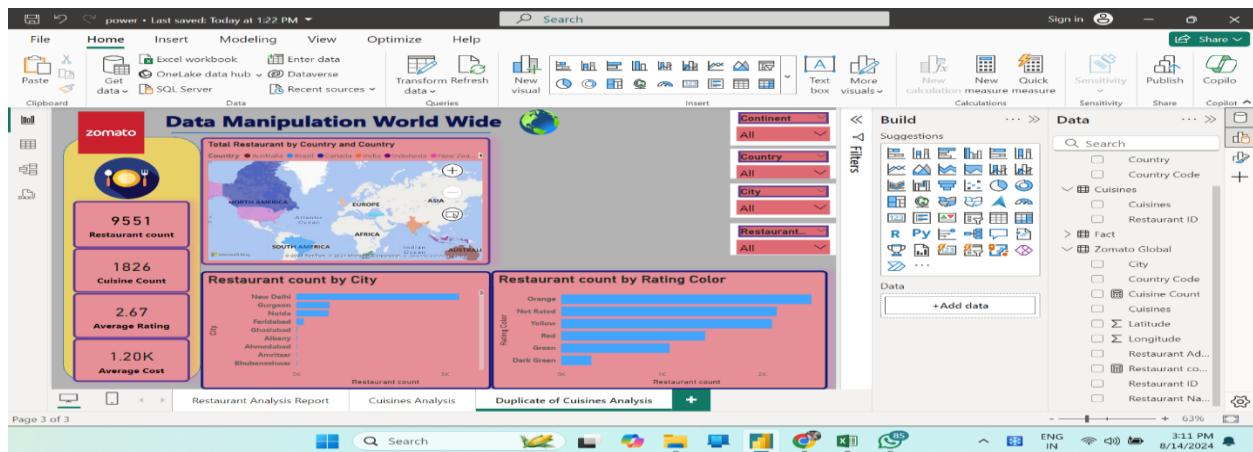
- Resize the slicer.
- Drag and drop ‘Continent’ column from ‘Country Code’ table to the Slicer.
- Change the settings of the ‘Slicer’ from ‘Vertical list’ to ‘Dropdown’ in ‘FormatVisual’ section.

This screenshot shows the same Power BI dashboard after modifications. The 'Slicer' has been resized and converted to a dropdown menu. The 'Filters' pane now shows the 'Continent' column from the 'Country Code' table, with options like 'All', 'Europe', 'Asia', 'North America', and 'South America'. The other filter categories ('Country', 'City', 'Restaurant Name') remain as dropdowns set to 'All'. The rest of the interface, including the 'Format' ribbon and 'Data' pane, remains largely the same as in the first screenshot.

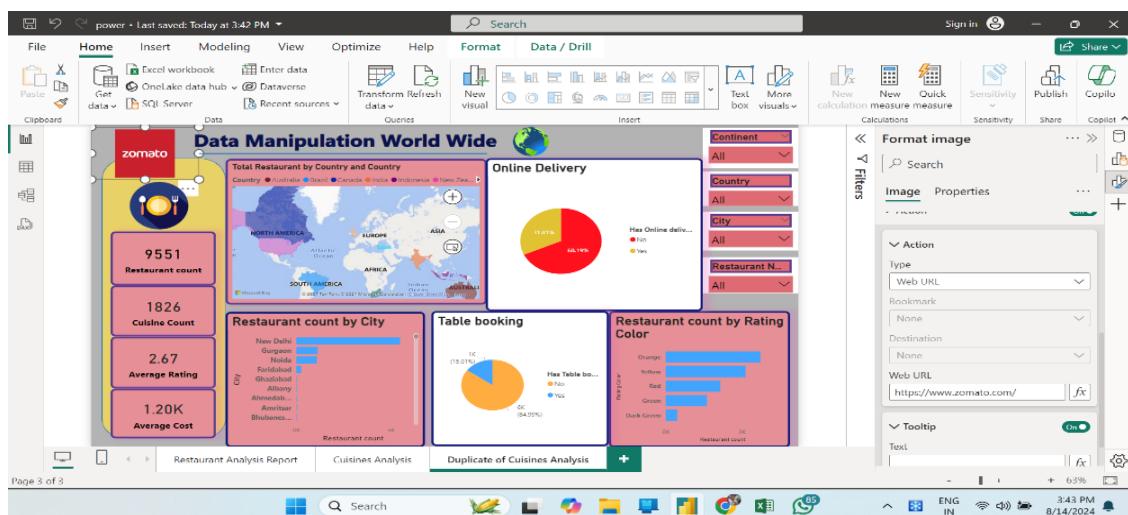
- As I have created four measures, four slicers need to be added to the report.
- Copy and paste the slicer as all the slicers will be in same format.
- Needed slicers are, ‘Country’ from ‘Country Code’ table, City from ‘Zomato Global’ table and ‘Restaurant Name’ from ‘Zomato Global’ table.
- Copy and paste the ‘Continent’ slicer.
- Click on each slicer and change from ‘Continent’ to ‘Country’ from ‘Country Code’ table in ‘Field’ in ‘Visualizations’.
- Click on each slicer and change from ‘Continent’ to ‘City’ from ‘Zomato Global’ table in ‘Field’ in ‘Visualizations’.
- Click on each slicer and change from ‘Continent’ to ‘Restaurant Name’, from ‘Zomato Global’ table in ‘Field’ in ‘Visualizations’.
- Every time anything selected from the dropdown list of the slicer, ‘Map’ and ‘Card’ visuals changes according to the option selected from the slicers.
- If ‘Asia’ is selected from dropdown list of the ‘Continent’ slicer then ‘Map’ displays all the countries under ‘Asia’, and all measures such as average rating, average cost for two, count of restaurants and cuisines in ‘Asia’.
- All the value of the table changes.



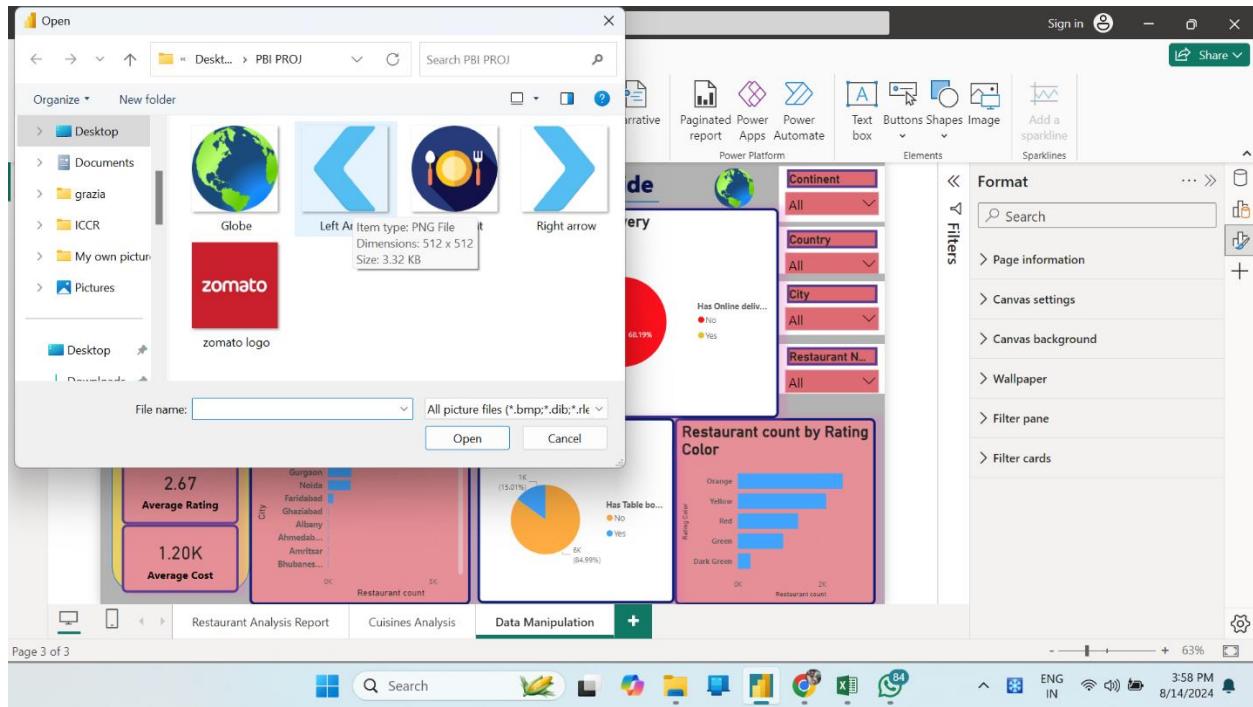
- Select Cluster Bar Chart ,
- In X-axis Drag and drop the Restaurant Count and in Y-axis Drag and Drop the City and the title rename as Restaurant count by City.
- Copy and paste the Restaurant Count By City for create the another Cluster Bar Chart and named as Restaurant Count by Rating Color. For this Drag and Drop the Restaurant Count in the X-axis and Rating Color in the Y-axis.



- Select Pie Chart from Visuals,
- For this Drag and Drop the Has Online Delivery to Legend and Restaurant Count in the Values and the Title rename as Online Delivery .
- Create Same for the Table Booking Pie Chart
- Here Drag and Drop the Has Table Booking and Restaurant Count.
- To insert URL into Zomato Image
- Go to the Format Tab and Unchecked the Action Box and Paste the URL into Web URL .
- Do same for the World wide also.



- **Adding Left Arrow to title:**
- Under ‘Insert’ tab – select ‘Image’ to add image to report.
- Browse the image you want to insert. Select it and click on ‘Open’.
- After resizing the image, the report looks like:
- It helps to move to the another page and get back to the another page.
- For this Go to the Format Tab Under Format Tab Unchecked the Action and set the Type as Page Navigation and in the Destination Give the Another Page Title.



power • Last saved: Today at 3:57 PM ▾

File Home Insert Modeling View Optimize Help Format Data / Drill

Edit interactions Apply drill down filters to Entire page

Bring forward ▾ Send backward ▾ Selection Align Group ▾

Interactions

Data Manipulation World Wide

Total Restaurant by Country and Country

Online Delivery

Restaurant count by City

Table booking

Restaurant count by Rating Color

Format image

Filters

Reset to default

Action

Type

- Back
- Back
- Bookmark
- Page navigation
- Q&A
- Web URL
- Apply all slicers
- Clear all slicers

Format image

Image Properties

Reset to default

Action

Type

- Back
- Back
- Bookmark
- Page navigation
- Q&A
- Web URL
- Apply all slicers
- Clear all slicers

power • Last saved: Today at 3:59 PM

File Home Insert Modeling View Optimize Help Format Data / Drill

Bring forward Send backward Selection Align Group

Interactions

Data Manipulation World Wide

Total Restaurant by Country and Country

Online Delivery

Restaurant count by City

Table booking

Restaurant count by Rating Color

Format image

Filters

Continent

Country

City

Restaurant N...

Restaurant count

Cuisine Count

Average Rating

Average Cost

New Delhi Gurgaon Noida Faridabad Ghaziabad Albany Ahmedabad Amritsar Bhubaneswar

Restaurant Analysis Report Cuisines Analysis Data Manipulation +

Page 3 of 3

The screenshot shows a Microsoft Power BI dashboard titled "Zomato Analysis Report". The dashboard features several key metrics in large, bold numbers: "9551 Restaurant count", "1826 Cuisine Count", and "2.67 Average Rating". To the right of these metrics are two dropdown filters: "Country" and "Continent". The "Country" filter has options for "All", "City", and "Restaurant Name". The "Continent" filter also has options for "All". Below these filters is a map of the world where each continent is colored according to the country selected in the filter. A legend on the left side of the map lists countries with their corresponding colors: Australia (blue), Brazil (orange), Canada (green), India (red), Indonesia (purple), New Zealand (yellow), Philippines (pink), and Qatar (light blue). The map also labels the Arctic Ocean, Atlantic Ocean, Indian Ocean, and Pacific Ocean. At the bottom of the dashboard, there is a section titled "Restaurant count by Cuisines" which displays a grid of cuisine names and their counts. The cuisines listed include Arabic, Asian, Australian, British, Central European, Chinese, French, German, Greek, Italian, Japanese, Mexican, Middle Eastern, Portuguese, Spanish, and Western. Each cuisine name is accompanied by a small colored square representing its category.

The screenshot shows a Microsoft Power BI dashboard titled "Data Manipulation World Wide". The dashboard includes the following components:

- Top Left:** A summary card with icons for a globe, a fork/spoon, a person, and a chart, followed by four data points:
 - Restaurant count: 9551
 - Cuisine Count: 1826
 - Average Rating: 2.67
 - Average Cost: 1.20K
- Top Center:** A world map titled "Total Restaurant by Country and Country" showing restaurant counts across continents.
- Top Right:** A pie chart titled "Online Delivery" showing the distribution of online delivery status (Yes: 68.79%, No: 31.21%).
- Middle Left:** A bar chart titled "Restaurant count by City" showing counts for New Delhi, Gurgaon, Noida, Faridabad, Ghaziabad, Aligarh, Ahmedabad, Amitsar, and Bhubaneswar.
- Middle Center:** A pie chart titled "Table booking" showing the distribution of table booking status (Yes: 15.01%, No: 84.99%).
- Middle Right:** A bar chart titled "Restaurant count by Rating Color" showing counts for Orange, Yellow, Red, Green, and Dark Green.
- Right Side:** A "Format image" pane for the globe icon, showing options like "Web URL" (set to https://www.google.com/search?q=) and "Tooltip" (Text: "Reset to default").
- Bottom Navigation:** Buttons for "Restaurant Analysis Report", "Cuisines Analysis", and "Data Manipulation".

power • Last saved: Today at 4:20 PM ▾

File Home Insert Modeling View Optimize Help

Themes

Page view ▾ Mobile layout Mobile Scale to fit Gridlines Snap to grid Lock objects

Filters Pane manager Data Bookmarks Selection Format Performance analyzer Show panes

Sync slicers Page visuals

Data Manipulation World Wide

Total Restaurant by Country and Country

Country: Australia, Brazil, Canada, India, Indonesia, New Zealand

Online Delivery

Has Online delivery: No (31.8%), Yes (68.1%)

Restaurant count by City

New Delhi, Gurgaon, Noida, Faridabad, Ghaziabad, Albany, Ahmedabad, Amritsar, Bhubanes...

Table booking

Has Table booking: No (15.01%), Yes (84.99%)

Restaurant count by Rating Color

Rating Color: Orange (2.3K), Yellow (2.1K), Red (1.4K), Green (1.1K), Dark Green (0.3K)

Filters

Continent: All

Country: All

City: All

Restaurant: All

Format

Search

Page information

Canvas settings

Canvas background

Wallpaper

Filter pane

Filter cards

Restaurant Analysis Report Cuisines Analysis Data Manipulation +

Page 3 of 3

Search

4:41 PM 8/14/2024