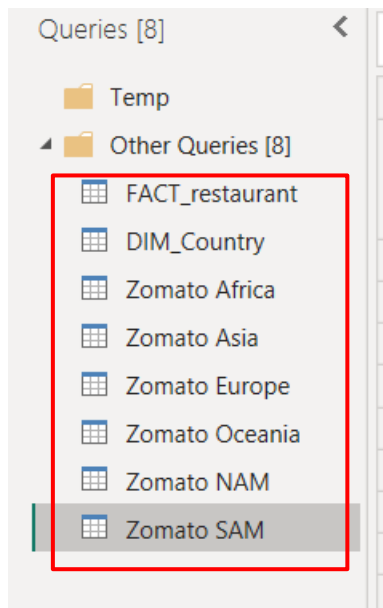## Steps that will help in the completion of the project:

1. Import the data from all available Excel files
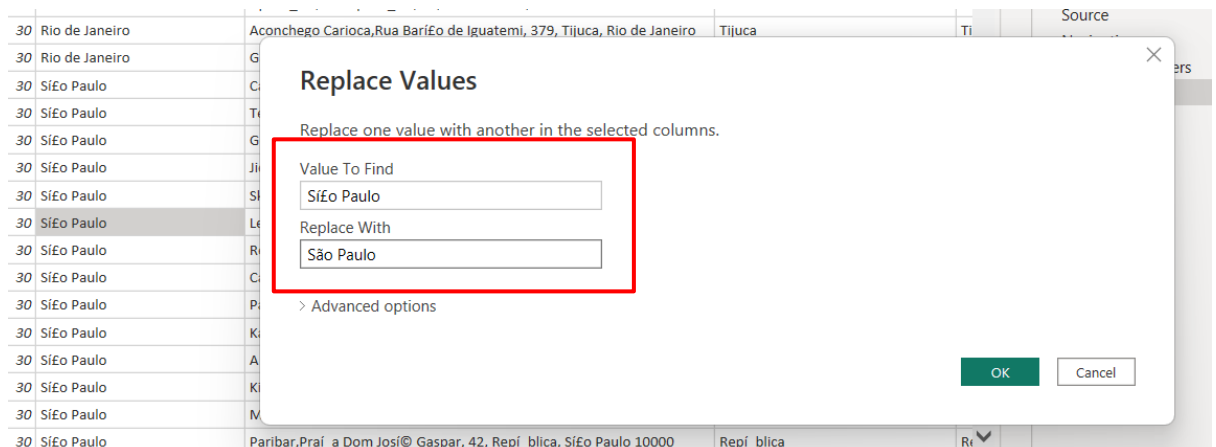

2. Data transformation:

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

For example:

"Sí£o Paulo" should be corrected to "São Paulo"

- Ensure the city name isn't ambiguous
  For example:

"Cedar Rapids/Iowa City" should be corrected to "Cedar Rapids"

"ÛÁstanbul" should be corrected to "Istanbul"

3. Remove any columns that aren't being used

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

ᴬᴮC Restaurant Name,Address		ᴬᴮC Restaurant Name		1.2 Longitude		1.2 Latitude		ᴬᴮ
● Valid	100%	● Valid	100%	● Valid	100%	● Valid	100%	●
● Error	0%	● Error	0%	● Error	0%	● Error	0%	●
● Empty	0%	● Empty	0%	● Empty	0%	● Empty	0%	●
The Butcher's Wife,15 Belgravia Road, Athlone, Cape Town		The Butcher's Wife		18.51440571		-33.96466043		Pi

Text After Delimiter   ✕

Enter the delimiter that marks the beginning of what you would like to extract.

Delimiter

,

◢ Advanced options
Scan for the delimiter

From the start of the input   ▾

Number of delimiters to skip ⓘ

0

                                                        OK   Cancel

(partially hidden left column rows:)
Coco Safar,Ground Floor, Cavendi
La Parada,107 Bree Street, CBD, C
Jason Bakery,185 Bree Street, CBD
Truth Coffee,36 Buitenkant Street
Salushi,25 Protea Road, Claremon
Origin Coffee Roasting,28 Hudson
Kloof Street House,30 Kloof Street
Jerry's Burger Bar,5 Park Road, Kl
Active Sushi,32 Hudson Street, Mi
Beluga,The Foundry, Prestwich St
Rocomamas,107a Main Road, Gre
The Creamery,Newlands Quarter,
Nobu - One&Only,One & Only Hot
Jarryds,90 Regent Road, Sea Point
My Sugar,77 Regent Road, Sea Po
Grand Café© & Beach,Granger Bay

tashas,Ground Level, Victoria Wharf, V & A Waterfront, Cape Town	tashas	18.421341	-33.902336	Ca
Gibson's Gourmet Burgers & Ribs,Shop 157, Lower Level, Victoria Wha…	Gibson's Gourmet Burgers & Ribs	18.42030041	-33.9042665	Bu
Willoughby & Co.,Ground Level, Victoria Wharf, V & A Waterfront, Cap…	Willoughby & Co.	18.421	-33.90416667	Se
Cube - Tasting Kitchen,24 Albrecht Road, Maboneng Precinct, City and …	Cube - Tasting Kitchen	28.060192	-26.203278	EL

ᴬᴮC Restaurant Name		ᴬᴮC Address		1
● Valid	100%	● Valid	100%	
● Error	0%	● Error	0%	
● Empty	0%	● Empty	0%	
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		
Beluga		The Foundry, Prestwich Street, Green Point, Cape Town		
Rocomamas		107a Main Road, Green Point, Cape Town		
The Creamery		Newlands Quarter, Deep Street, Newlands, Cape Town		

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

Restaurants serving more than one cuisine have each cuisine served by the restaurant listed in a separate row

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

```
= Table.Distinct(#"Removed Blank Rows", {"Country Code"})
```

1²₃ Country Code	AᴮC Country
● Valid 100%	● Valid 100%
● Error 0%	● Error 0%
● Empty 0%	● Empty 0%

	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

Query Settings

PROPERTIES

Name

DIM_Country

All Properties

APPLIED STEPS

Source

Navigation

Promoted Headers

Changed Type

Removed Blank Rows

✕ Removed Duplicates

Steps to use DAX in the project:

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

Aggregate rating	Rating color
Above 4.5	Dark Green
4 to 4.4	Green

```
1  Rating color = IF([Aggregate rating]>=4.5, "Dark Green", IF([Aggregate rating]>=4, "Green","Not Green"))
```

ce range	Aggregate rating	Rating text	Votes	Rating color
3	4.6	Excellent	58	Dark Green
4	4.6	Excellent	30	Dark Green
4	4.8	Excellent	59	Dark Green
4	4.5	Excellent	49	Dark Green
3	4.6	Excellent	24	Dark Green
4	4.7	Excellent	44	Dark Green
4	4.6	Excellent	25	Dark Green
4	4.6	Excellent	21	Dark Green
4	4.9	Excellent	49	Dark Green
3	4.6	Excellent	21	Dark Green
4	4.9	Excellent	40	Dark Green

ange	Aggregate rating	Rating text	Votes	Rating color
3	4.1	Very Good	788	Green
3	4.3	Very Good	870	Green
3	4.2	Very Good	877	Green
3	4.2	Very Good	874	Green
3	4.2	Very Good	152	Green
3	4.4	Very Good	131	Green
2	4.3	Very Good	103	Green
3	4.2	Very Good	103	Green
2	4.4	Very Good	72	Green
3	4.2	Very Good	79	Green
3	4.3	Very Good	106	Green
4	4.1	Very Good	97	Green
4	4.4	Very Good	115	Green
3	4.4	Very Good	296	Green

Aggregate rating	Rating text	Votes	Rating color
0	Not rated	0	Not Green
0	Not rated	0	Not Green
0	Not rated	0	Not Green
0	Not rated	0	Not Green
0	Not rated	0	Not Green
0	Not rated	0	Not Green
0	Not rated	0	Not Green
0	Not rated	0	Not Green
0	Not rated	0	Not Green
0	Not rated	0	Not Green
0	Not rated	0	Not Green
0	Not rated	0	Not Green

2) Create the following measures in the appropriate tables

      a. Restaurant count

      b. Average cost

      c. Average rating

      d. Cuisine count

```
Restaurant count = DISTINCTCOUNT([Restaurant ID])
```

9551
Restaurant count

```
1  Average Cost = AVERAGE([Average Cost for two])
```

1.20K
Average Cost
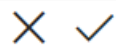
```
1  Average Rating = AVERAGE([Aggregate rating])
```

2.67
Average Rating

```
Cuisine count = DISTINCTCOUNT([Cuisine])
```

145
Cuisine count

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

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

```
Continent = CONCATENATE([Region],CONCATENATE(" - ", RELATED(DIM_Country[Country])))
```

Restaurant ID	Country Code	City	Restaurant Name	Address	Longitude	Latitude	Region	Continent
18287358	1	New Delhi	Food Cloud	Aaya Nagar, New Delhi	0	0	Asia	Asia - India
18351495	1	New Delhi	Cakeophony By Sonali	Alaknanda, New Delhi	0	0	Asia	Asia - India
18361522	1	New Delhi	Punjabi Chaap Corner	Shop 6, Ground Floor, Plot 2, NRI Colony, Greater Kailash 4, Alaknanda, New Delhi	0	0	Asia	Asia - India
18375413	1	New Delhi	Rama Desi Ghee Meat Wala	IA, Block 10 C, Ashok Vihar Phase 1, New Delhi	0	0	Asia	Asia - India
18469682	1	New Delhi	Delhi-6 The Chicken Planet	2987/7, DDA Flats, Bari Masjid, Sarai Khalil, Chandni Chowk, New Delhi	0	0	Asia	Asia - India
310678	1	New Delhi	Shri Bhujia Bhandar	117, Moti Bazar, Chandni Chowk, New Delhi	0	0	Asia	Asia - India
18429374	1	New Delhi	Roller's High	K-1/38, EPDP Road, Chittaranjan Park, New Delhi	0	0	Asia	Asia - India

Continent

- Sort ascending
- Sort descending
- Clear sort
- Clear filter
- Clear all filters
- Text filters   >

Search

- ✓ (Select all)
- ✓ Africa - South Africa
- ✓ Asia - India
- ✓ Asia - Indonesia
- ✓ Asia - Phillipines
- ✓ Asia - Qatar
- ✓ Asia - Singapore
- ✓ Asia - Sri Lanka
- ✓ Asia - Turkey
- ✓ Asia - UAE
- ✓ Europe - United Kingdom
- ✓ North America - Canada
- ✓ North America - United States
- ✓ Oceania - Australia
- ✓ Oceania - New Zealand
- ✓ South America - Brazil

OK   Cancel

Asia - India

VISUALIZATION

Filters across all pages are in sync

This list only consists of Green or Dark Green Colour coded restaurants with rating >=4

808
Restaurant count

4.22
Average Rating

Select Country ∨
- ○ Australia
- ○ Brazil
- ○ Canada
- ● India
- ○ Indonesia
- ○ New Zealand
- ○ Phillipines
- ○ Qatar
- ○ Singapore
- ○ South Africa
- ○ Sri Lanka
- ○ Turkey
- ○ UAE
- ○ United Kingdom
- ○ United States

Rating color
- ■ Select all
- ■ Dark Green
- ■ Green

Has Table booking ∨
- ■ Select all
- ■ No
- ■ Yes

Has Online delivery ∨
- ■ Select all
- ■ No
- ■ Yes

Country

Select Count... ∨
- ○ Australia
- ○ Brazil
- ○ Canada
- ● India
- ○ Indonesia
- ○ New Zealand
- ○ Phillipines
- ○ Qatar
- ○ Singapore
- ○ South Africa
- ○ Sri Lanka
- ○ Turkey
- ○ UAE
- ○ United Kingdom
- ○ United States

Has Table booking ∨
- ■ Select all
- ■ No
- ■ Yes

Has Online delivery ∨
- ■ Select all
- ■ No
- ■ Yes

Rating color
- ■ Select all
- ■ Dark Green
- ■ Green

Restaurants in decreasing order of average customer rating

Select Count... ⌄

- ○ Australia
- ○ Brazil
- ○ Canada
- ◉ India
- ○ Indonesia
- ○ New Zealand
- ○ Phillipines
- ○ Qatar
- ○ Singapore
- ○ South Africa
- ○ Sri Lanka
- ○ Turkey
- ○ UAE
- ○ United Kingdom
- ○ United States

Rating color ⌄
- ■ Select all
- ■ Dark Green
- ■ Green

Has Table booking ⌄
- ■ Select all
- ■ No
- ■ Yes

Has Online delivery
- ■ Select all
- ■ No
- ■ Yes

Restaurants arranged in incresing order of average cost

Average Cost axis: 0K, 2K, 4K, 6K, 8K

Restaurant Name (x-axis): BMG - All Day Dining, Sheroes Hangout, Jung Bahadur Kachori Wala, Ahuja Milk Bhandar, Ashok Chaat Corner, Cool Point, Gurdas Ram Jalebi Wala, Kumar Samose Wala, Sita Ram Diwan Chand, Baba Nagpal Corner, Gelateria Montecatini Terme, Giani's di Hatti, Jain Coffee House, Kanha Sweets, Kashi Chat Bhandar, Natural Ice Cream, Naturals Ice Cream, Shyam Sweets, Andhra Bhavan, Chaina Ram Sindhi Confecti..., Duke's Pastry Shop, Frozen Factory, Haji Shabrati Nihari Wale, Kulfiano, Kunzum Travel Cafe, Kuremal Mohan Lal Kulfi Wa..., Novelty Dairy & Stores, Prem Di Hatti, Qureshi Kabab Corner, Sindhi Corner, Teasta, Tony's, Bakerz Lodge, Classic, Frosty Rollos, Ice Pan Creamery, Jai Vaishno Rasoi, Mysore Cafe, Oh So Stoned!, Oye24, Raw Creams

Select Country

- ○ Australia
- ○ Brazil
- ○ Canada
- ◉ India
- ○ Indonesia
- ○ New Zealand
- ○ Phillipines
- ○ Qatar
- ○ Singapore
- ○ South Africa
- ○ Sri Lanka
- ○ Turkey
- ○ UAE
- ○ United Kingdom
- ○ United States

Rating color ⌄
- ■ Select all
- ■ Dark Green
- ■ Green

Has Table booking ⌄
- ■ Select all
- ■ No
- ■ Yes

Has Online delivery
- ■ Select all
- ■ No
- ■ Yes

Restaurants in decreasing order of number of cuisines

Cuisine count axis: 0, 2, 4, 6, 8, 10

Restaurant Name (x-axis): Barbeque Nation, Caffe 9, R'ADDA, Andrea's Eatery, Basil With A Twist, Mocha, Nini's Kitchen, Nuterro, Out Of The Box, The Forresta Kitchen & Bar, 650 - The Global Kitchen, Asian Haus, Big Browsky, Cafe Delhi Heights, Caffé Riverrun, ECHOES Koramangala, Echoes Satyaniketan, Gastronomica Kitchen &..., Kargo, Kylin Experience, L 14 - Renaissance Luckn..., Locale, Mekong - Hotel GreenPark, Nariyal Cafe, National Highway 44, Nowhere Terrace Brewpu..., Paragon, Qubitos - The Terrace Cafe, Ricos, Smoke On Water, Tea Villa Cafe, The Sassy Spoon, United Kitchens of India, 52 Janpath, Bar Bar, Chili's, Cocoa Tree, Coldpress Company, Eat Street