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LEVEL-1 TASK-1->> Data Exploration and Preprocessing

```
[3] import pandas as pd
```

```
[5] # Load the Dataset
    df = pd.read_csv('/content/Dataset .csv')
    df
```

	Restaurant ID	Restaurant Name	Country Code	City	Address	Locality	Locality Verbose	Longitude	Latitude	Cuisines	...	Currency	Has Table booking	Has Online delivery	Is delivering now	Switch to order menu	Price range	Aggregate rating	Rating color	Rating text	Votes
0	6317637	Le Petit Souffle	162	Makati City	Third Floor, Century City Mall, Kalayaan Avenu...	Century City Mall, Poblacion, Makati City	Century City Mall, Poblacion, Makati City, Mak...	121.027535	14.565443	French, Japanese, Desserts	...	Botswana Pula(P)	Yes	No	No	No	3	4.8	Dark Green	Excellent	314
1	6304287	Izakaya Kikufuji	162	Makati City	Little Tokyo, 2277 Chino Roces Avenue, Legaspi...	Little Tokyo, Legaspi Village, Makati City	Little Tokyo, Legaspi Village, Makati City, Ma...	121.014101	14.553708	Japanese	...	Botswana Pula(P)	Yes	No	No	No	3	4.5	Dark Green	Excellent	591
2	6300002	Heat - Edsa Shangri-La	162	Mandaluyong City	Edsa Shangri-La, 1 Garden Way, Ortigas, Mandal...	Edsa Shangri-La, Ortigas, Mandaluyong City	Edsa Shangri-La, Ortigas, Mandaluyong City, Ma...	121.056831	14.581404	Seafood, Asian, Filipino, Indian	...	Botswana Pula(P)	Yes	No	No	No	4	4.4	Green	Very Good	270
3	6318506	Ooma	162	Mandaluyong City	Third Floor, Mega Fashion Hall, SM Megamall, O...	SM Megamall, Ortigas, Mandaluyong City	SM Megamall, Ortigas, Mandaluyong City, Mandal...	121.056475	14.585318	Japanese, Sushi	...	Botswana Pula(P)	No	No	No	No	4	4.9	Dark Green	Excellent	365
4	6314302	Sambo Kojin	162	Mandaluyong City	Third Floor, Mega Atrium, SM Megamall, Ortigas...	SM Megamall, Ortigas, Mandaluyong City	SM Megamall, Ortigas, Mandaluyong City, Mandal...	121.057508	14.584450	Japanese, Korean	...	Botswana Pula(P)	Yes	No	No	No	4	4.8	Dark Green	Excellent	229
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9546	5915730	Naml\ Gurme	208	��stanbul	Kemanke�� Karamustafa Pa��a Mahallesi, R\ht\m ...	Karak�_y	Karak�_y, ��stanbul	28.977392	41.022793	Turkish	...	Turkish Lira(TL)	No	No	No	No	3	4.1	Green	Very Good	788
9547	5908749	Ceviz	208	��stanbul	Ko��uyolu Mahallesi, Muhittin	Ko��uyolu	Ko��uyolu,	29.041297	41.009847	World Cuisine,		Turkish	No	No	No	No	3	4.2	Green	Very	1034

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DATA EXPLORATION STEPS

```
[ ] import numpy as np
    # Get data dimensions (number of rows and columns)
    print(df.shape)
```

```
(9551, 21)
```

```
# Check for missing values in each column
print(df.isnull().sum())
```

```
Restaurant ID         0
Restaurant Name       0
Country Code          0
City                  0
Address               0
Locality              0
Locality Verbose      0
Longitude             0
Latitude              0
Cuisines              9
Average Cost for two  0
Currency              0
Has Table booking     0
Has Online delivery   0
Is delivering now     0
Switch to order menu  0
Price range           0
Aggregate rating      0
Rating color          0
Rating text           0
Votes                 0
dtype: int64
```

```
[ ] df.columns
```

```
Index(['Restaurant ID', 'Restaurant Name', 'Country Code', 'City', 'Address',
       'Locality', 'Locality Verbose', 'Longitude', 'Latitude', 'Cuisines',
       'Average Cost for two', 'Currency', 'Has Table booking',
       'Has Online delivery', 'Is delivering now', 'Switch to order menu',
       'Price range', 'Aggregate rating', 'Rating color', 'Rating text',
       'Votes'],
      dtype='object')
```

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```
df.dtypes
```

```
Restaurant ID             int64
Restaurant Name          object
Country Code              int64
City                     object
Address                  object
Locality                 object
Locality Verbose         object
Longitude               float64
Latitude                float64
Cuisines                 object
Average Cost for two      int64
Currency                 object
Has Table booking        object
Has Online delivery      object
Is delivering now        object
Switch to order menu     object
Price range               int64
Aggregate rating        float64
Rating color             object
Rating text              object
Votes                     int64
dtype: object
```

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```
[ ] # Convert object columns to categorical data types
    object_cols = ["Country Code", "City", "Address", "Locality", "Locality Verbose",
                   "Cuisines", "Currency", "Switch to order menu", "Price range",
                   "Rating color", "Rating text"]
    df[object_cols] = df[object_cols].astype('category')
    # Convert 'Yes' and 'No' to boolean values
    df['Has Table booking'] = df['Has Table booking'].map({'Yes': True, 'No': False})
    df['Has Online delivery'] = df['Has Online delivery'].map({'Yes': True, 'No': False})

    # Check the data types after conversion
    print("\nData types after conversion:")
    print(df.dtypes)
```

```
Data types after conversion:
Restaurant ID             int64
Restaurant Name          object
Country Code           category
City                   category
```

```
Country Code            category
City                    category
Address                 category
Locality                category
Locality Verbose        category
Longitude                float64
Latitude                 float64
Cuisines                category
Average Cost for two       int64
Currency                category
Has Table booking         object
Has Online delivery       object
Is delivering now         object
Switch to order menu    category
Price range             category
Aggregate rating         float64
Rating color            category
Rating text             category
Votes                      int64
dtype: object
```

RATING COUNTS TO EXAMINE CLASS IMBALANCES

```
import matplotlib.pyplot as plt

# Calculate the frequency of each rating
rating_counts = df['Aggregate rating'].value_counts().sort_index()

# Visualize the distribution of the target variable
plt.figure(figsize=(10, 6))
plt.bar(rating_counts.index, rating_counts.values, color='skyblue')
plt.title('Distribution of Aggregate Ratings')
plt.xlabel('Aggregate Rating')
plt.ylabel('Frequency')
plt.xticks(rotation=45)  # Rotate the x-axis labels by 45 degrees
plt.grid(axis='y', linestyle='--', alpha=0.7)
plt.tight_layout()  # Adjust layout to prevent overlapping
plt.show()

# Identify any class imbalances
# We can also print out the rating counts to examine class imbalances more closely
print("\nRating Counts:")
print(rating_counts)
```

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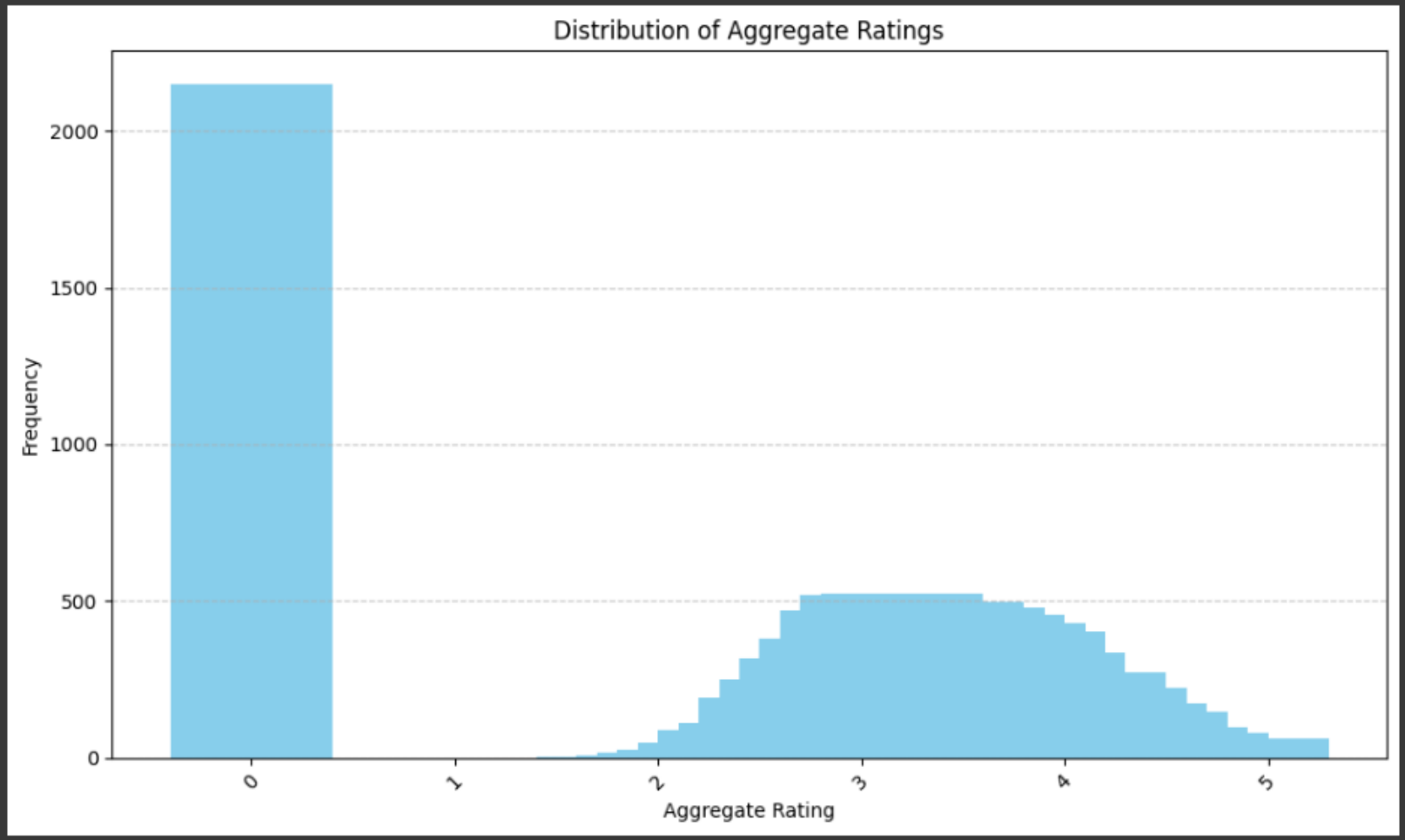
```
print(rating_counts)
```



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```
[ ] Rating Counts:
Aggregate rating
0.0    2148
1.8       1
1.9       2
2.0       7
2.1      15
2.2      27
2.3      47
2.4      87
2.5     110
2.6     191
2.7     250
2.8     315
2.9     381
3.0     468
3.1     519
3.2     522
3.3     483
3.4     498
3.5     480
3.6     458
3.7     427
3.8     400
3.9     335
4.0     266
4.1     274
4.2     221
4.3     174
4.4     144
4.5      95
4.6      78
4.7      42
4.8      25
4.9      61
Name: count, dtype: int64
```

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LEVEL-1 TASK-2 ->> Descriptive Analysis

```
[ ] # Calculate basic statistical measures for numerical columns
    numerical_stats = df.describe()

    # Display the calculated statistics
    print("Basic Statistical Measures for Numerical Columns:")
    print(numerical_stats)
```

```
Basic Statistical Measures for Numerical Columns:
       Restaurant ID    Longitude     Latitude  Average Cost for two  \
count   9.551000e+03  9551.000000  9551.000000           9551.000000
mean    9.051128e+06    64.126574    25.854381           1199.210763
std     8.791521e+06    41.467058    11.007935          16121.183073
min     5.300000e+01  -157.948486   -41.330428              0.000000
25%     3.019625e+05    77.081343    28.478713            250.000000
50%     6.004089e+06    77.191964    28.570469            400.000000
75%     1.835229e+07    77.282006    28.642758            700.000000
max     1.850065e+07   174.832089    55.976980         800000.000000

       Aggregate rating         Votes
count       9551.000000   9551.000000
mean           2.666370    156.909748
std            1.516378    430.169145
min            0.000000      0.000000
25%            2.500000      5.000000
50%            3.200000     31.000000
75%            3.700000    131.000000
max            4.900000  10934.000000
```

LEVEL-1 TASK-3 ->> Geospatial Analysis

```
import matplotlib.pyplot as plt

# Explore the distribution of "Country Code"
country_counts = df['Country Code'].value_counts()
print("\nDistribution of Country Code:")
print(country_counts)

# Explore the distribution of "City"
city_counts = df['City'].value_counts()
print("\nDistribution of City:")
print(city_counts)

# Explore the distribution of "Cuisines"
cuisine_counts = df['Cuisines'].value_counts()
print("\nDistribution of Cuisines:")
print(cuisine_counts)

# Identify the top cuisines
top_cuisines = cuisine_counts.head(10)
print("\nTop 10 Cuisines:")
print(top_cuisines)

# Identify the top cities with the highest number of restaurants
top_cities = city_counts.head(10)
print("\nTop 10 Cities with the Highest Number of Restaurants:")
print(top_cities)


# Visualize the distribution of "Country Code"
plt.figure(figsize=(10, 6))
country_counts.plot(kind='bar', color='skyblue')
plt.title('Distribution of Country Code')
plt.xlabel('Country Code')
plt.ylabel('Number of Restaurants')
plt.xticks(rotation=45)
plt.grid(axis='y', linestyle='--', alpha=0.7)
plt.show()

print("\t")  # Add a tab space
```

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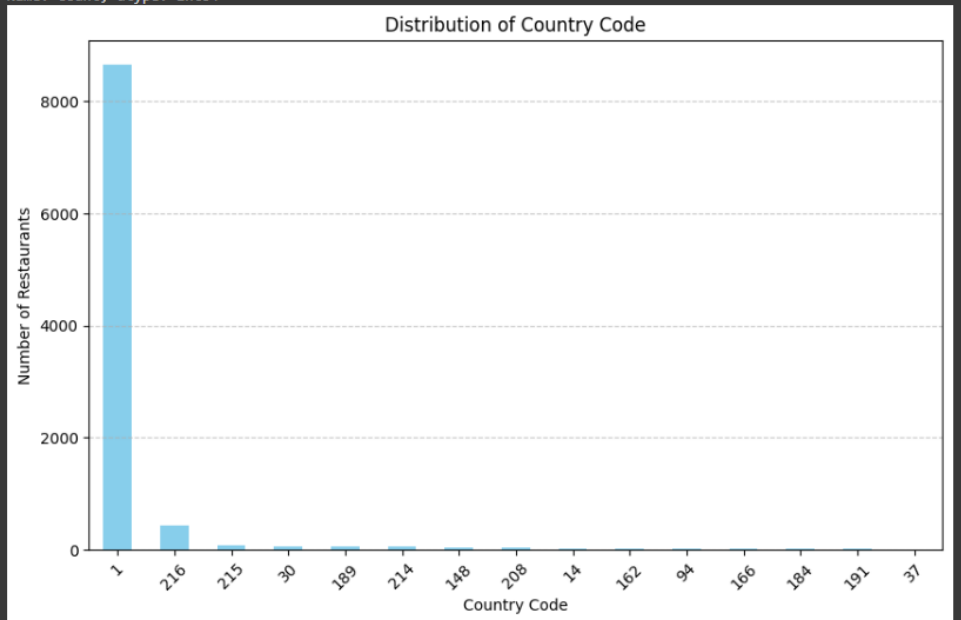
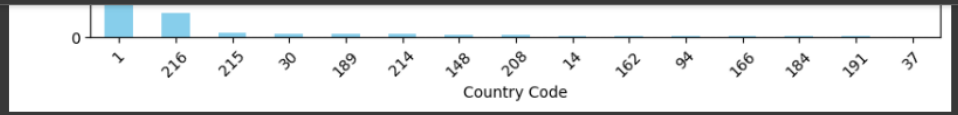
```
[ ] # Visualize the distribution of "City"
    plt.figure(figsize=(12, 6))
    city_counts.head(20).plot(kind='bar', color='salmon')
    plt.title('Distribution of City (Top 20)')
    plt.xlabel('City')
    plt.ylabel('Number of Restaurants')
    plt.xticks(rotation=45)
    plt.grid(axis='y', linestyle='--', alpha=0.7)
    plt.show()

    print("\t")  # Add a tab space


    # Visualize the distribution of "Cuisines" (Top 10)
    plt.figure(figsize=(12, 6))
    top_cuisines.plot(kind='bar', color='lightgreen')
    plt.title('Top 10 Cuisines')
    plt.xlabel('Cuisine')
    plt.ylabel('Number of Restaurants')
    plt.xticks(rotation=45)
    plt.grid(axis='y', linestyle='--', alpha=0.7)
    plt.show()

    print("\t")  # Add a tab space
```

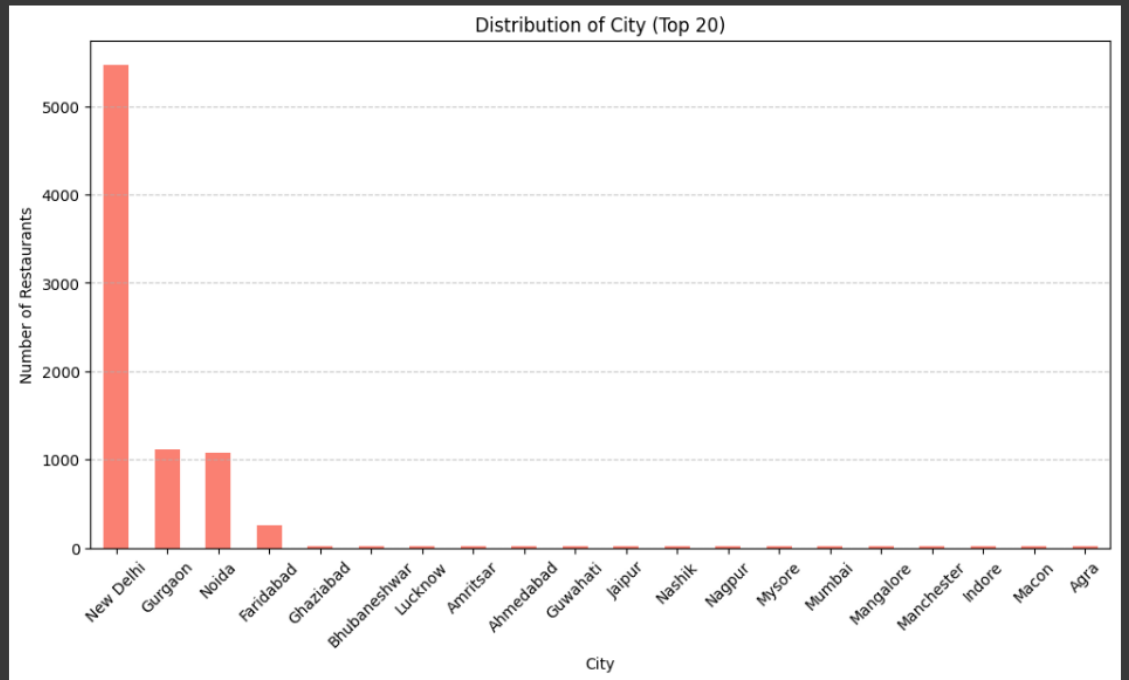
```
Distribution of Country Code:
Country Code
1      8652
216     434
215      80
30       60
189      60
214      60
148      40
208      34
14       24
162      22
94       21
166      20
184      20
191      20
37        4
Name: count, dtype: int64
```

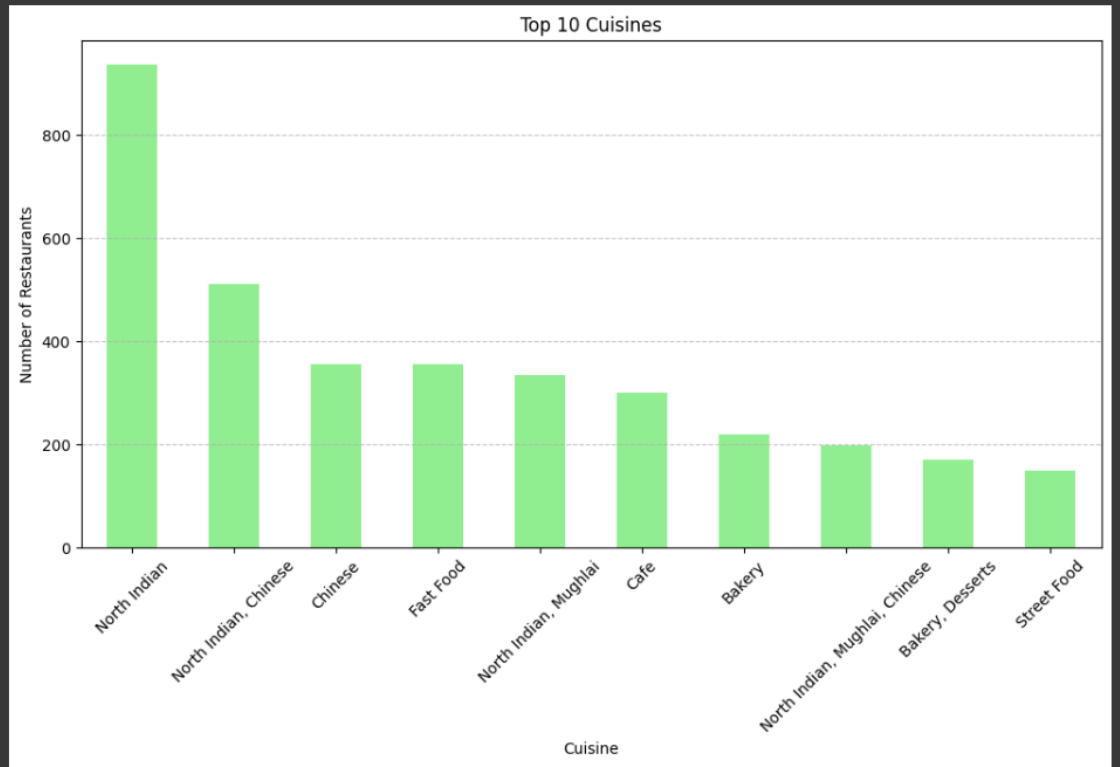
```
Distribution of City:
City
New Delhi      5473
Gurgaon        1118
Noida          1080
Faridabad       251
Ghaziabad        25
               ...
Dicky Beach       1
Lorn              1
Quezon City       1
Lincoln           1
Lakeview          1
Name: count, Length: 141, dtype: int64

Distribution of Cuisines:
Cuisines
North Indian                                        936
North Indian, Chinese                               511
Chinese                                             354
Fast Food                                           354
North Indian, Mughlai                               334
                                                   ...
Continental, Italian, North Indian, Lebanese, Thai    1
Continental, Italian, North Indian, Lebanese          1
Continental, Italian, North Indian, Chinese, Lebanese 1
Continental, Italian, North Indian, Chinese           1
World Cuisine, Patisserie, Cafe                       1
Name: count, Length: 1825, dtype: int64

Top 10 Cuisines:
Cuisines
North Indian                    936
North Indian, Chinese           511
Chinese                         354
Fast Food                       354
North Indian, Mughlai           334
Cafe                            299
Bakery                          218
North Indian, Mughlai, Chinese  197
Bakery, Desserts                170
Street Food                     149
Name: count, dtype: int64

Top 10 Cities with the Highest Number of Restaurants:
City
New Delhi       5473
Gurgaon         1118
```

```
City
New Delhi       5473
Gurgaon         1118
Noida           1080
Faridabad        251
Ghaziabad         25
Bhubaneshwar      21
Lucknow           21
Amritsar          21
Ahmedabad         21
Guwahati          21
Name: count, dtype: int64
```




0
1
216
215
30
189
214
148
208
14
162
94
166
184
191
37
Country Code


Distribution of City (Top 20)
Number of Restaurants
0
1000
2000
3000
4000
5000
New Delhi
Gurgaon
Noida
Faridabad
Ghaziabad
Bhubaneshwar
Lucknow
Amritsar
Ahmedabad
Guwahati
Jaipur
Nashik
Nagpur
Mysore
Mumbai
Mangalore
Manchester
Indore
Macon
Agra
City



[ ]

[7] pip install folium

```
Requirement already satisfied: folium in /usr/local/lib/python3.10/dist-packages (0.14.0)
Requirement already satisfied: branca>=0.6.0 in /usr/local/lib/python3.10/dist-packages (from folium) (0.7.1)
Requirement already satisfied: jinja2>=2.9 in /usr/local/lib/python3.10/dist-packages (from folium) (3.1.3)
Requirement already satisfied: numpy in /usr/local/lib/python3.10/dist-packages (from folium) (1.25.2)
Requirement already satisfied: requests in /usr/local/lib/python3.10/dist-packages (from folium) (2.31.0)
Requirement already satisfied: MarkupSafe>=2.0 in /usr/local/lib/python3.10/dist-packages (from jinja2>=2.9->folium) (2.1.5)
Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.10/dist-packages (from requests->folium) (3.3.2)
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.10/dist-packages (from requests->folium) (3.7)
Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.10/dist-packages (from requests->folium) (2.0.7)
Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.10/dist-packages (from requests->folium) (2024.2.2)
```

[10]

```python
import folium

# Create a map centered at the mean latitude and longitude
map_center = [df['Latitude'].mean(), df['Longitude'].mean()]
mymap = folium.Map(location=map_center, zoom_start=10)

# Add markers for each restaurant location
for index, row in df.iterrows():
    folium.Marker(location=[row['Latitude'], row['Longitude']],
                  popup=row['Restaurant Name'],
                  tooltip=row['Restaurant Name']).add_to(mymap)

# Display the map
mymap
```

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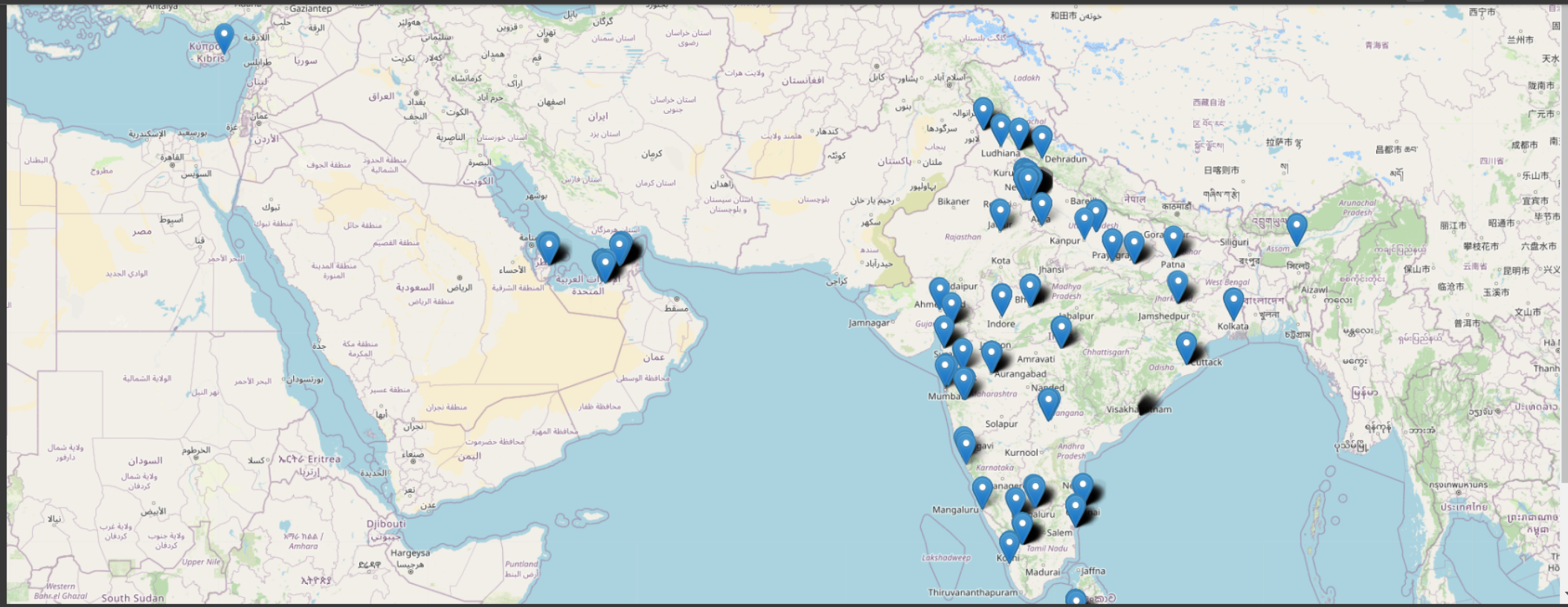
[10]



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```
# Calculate the percentage of restaurants that offer table booking
table_booking_percentage = (df['Has Table booking'].sum() / len(df)) * 100

# Calculate the percentage of restaurants that offer online delivery
online_delivery_percentage = (df['Has Online delivery'].sum() / len(df)) * 100

# Print the results
print("Percentage of restaurants that offer table booking: {:.2f}%".format(table_booking_percentage))
print("Percentage of restaurants that offer online delivery: {:.2f}%".format(online_delivery_percentage))
```

```
Percentage of restaurants that offer table booking: 0.00%
Percentage of restaurants that offer online delivery: 0.00%
```

```
# Check for missing values in the "Has Table booking" column
print("Number of missing values in 'Has Table booking':", df['Has Table booking'].isnull().sum())

# Calculate the average ratings for restaurants with table booking and without
avg_rating_with_table_booking = df[df['Has Table booking'].notnull()]['Aggregate rating'].mean()
avg_rating_without_table_booking = df[df['Has Table booking'].isnull()]['Aggregate rating'].mean()

# Print the results
print("Average rating for restaurants with table booking:", avg_rating_with_table_booking)
print("Average rating for restaurants without table booking:", avg_rating_without_table_booking)
```

```
Number of missing values in 'Has Table booking': 9551
Average rating for restaurants with table booking: nan
Average rating for restaurants without table booking: 2.66637001361114
```

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```
[ ] avg_rating_with_table_booking = df[df['Has Table booking'].notnull()]['Aggregate rating'].mean()
    avg_rating_without_table_booking = df[df['Has Table booking'].isnull()]['Aggregate rating'].mean()

    # Print the results
    print("Average rating for restaurants with table booking:", avg_rating_with_table_booking)
    print("Average rating for restaurants without table booking:", avg_rating_without_table_booking)
```

```
Number of missing values in 'Has Table booking': 9551
Average rating for restaurants with table booking: nan
Average rating for restaurants without table booking: 2.66637001361114
```

```
# Group the data by price range and calculate the percentage of restaurants offering online delivery in each group
online_delivery_percentage_by_price_range = df.groupby('Price range')['Has Online delivery'].mean() * 100

# Print the results
print("Online Delivery Percentage by Price Range:")
print(online_delivery_percentage_by_price_range)
```

```
Online Delivery Percentage by Price Range:
Price range
1    NaN
2    NaN
3    NaN
4    NaN
Name: Has Online delivery, dtype: object
```

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LEVEL-2 TASK-2 -->> Price Range Analysis

```
[ ] # Determine the most common price range among all the restaurants
    most_common_price_range = df['Price range'].mode()[0]

    # Print the result
    print("The most common price range among all the restaurants:", most_common_price_range)
```

```
The most common price range among all the restaurants: 1
```

```
[ ] # Calculate the average rating for each price range
    avg_rating_by_price_range = df.groupby('Price range')['Aggregate rating'].mean()

    # Print the results
    print("Average rating for each price range:")
    print(avg_rating_by_price_range)
```

```
Average rating for each price range:
Price range
1    1.999887
2    2.941054
3    3.683381
4    3.817918
Name: Aggregate rating, dtype: float64
```

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[ ]

```
Average rating for each price range:
Price range
1    1.999887
2    2.941054
3    3.683381
4    3.817918
Name: Aggregate rating, dtype: float64
```

[ ]

```
# Calculate the average rating for each price range
avg_rating_by_price_range = df.groupby('Price range')['Aggregate rating'].mean()

# Find the price range with the highest average rating
highest_avg_rating_price_range = avg_rating_by_price_range.idxmax()

# Determine the corresponding color for the highest average rating price range
highest_avg_rating_color = df[df['Price range'] == highest_avg_rating_price_range]['Rating color'].iloc[0]

# Print the result
print("The color that represents the highest average rating among different price ranges:", highest_avg_rating_color)
```

```
The color that represents the highest average rating among different price ranges: Green
```

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LEVEL-2 TASK-3 -->> Feature Engineering

```
[ ] # Extract additional features: length of restaurant name and address
    df['Restaurant Name Length'] = df['Restaurant Name'].apply(lambda x: len(str(x)))
    df['Address Length'] = df['Address'].apply(lambda x: len(str(x)))

    # Print the first few rows to verify the new features
    print(df[['Restaurant Name', 'Restaurant Name Length', 'Address', 'Address Length']].head())
```

```
           Restaurant Name  Restaurant Name Length  \
0       Le Petit Souffle                      16
1       Izakaya Kikufuji                      16
2  Heat - Edsa Shangri-La                     22
3                   Ooma                       4
4            Sambo Kojin                      11

                                      Address  Address Length
0  Third Floor, Century City Mall, Kalayaan Avenu...              71
1  Little Tokyo, 2277 Chino Roces Avenue, Legaspi...              67
2  Edsa Shangri-La, 1 Garden Way, Ortigas, Mandal...              56
3  Third Floor, Mega Fashion Hall, SM Megamall, O...              70
4  Third Floor, Mega Atrium, SM Megamall, Ortigas...              64
```

```
[ ] # Assuming you have already loaded the DataFrame df

    # Perform one-hot encoding for 'Has Table booking' and 'Has Online delivery' separately
    table_booking_encoded = pd.get_dummies(df['Has Table booking'], prefix='Has_Table_Booking')
    online_delivery_encoded = pd.get_dummies(df['Has Online delivery'], prefix='Has_Online_Delivery')

    # Concatenate the encoded columns with the original DataFrame
    df_encoded = pd.concat([df, table_booking_encoded, online_delivery_encoded], axis=1)

    # Print the first few rows including the encoded columns
    print(df_encoded)
```

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[ ]

	Restaurant ID	Restaurant Name	Country Code	City
0	6317637	Le Petit Souffle	162	Makati City
1	6304287	Izakaya Kikufuji	162	Makati City
2	6300002	Heat - Edsa Shangri-La	162	Mandaluyong City
3	6318506	Ooma	162	Mandaluyong City
4	6314302	Sambo Kojin	162	Mandaluyong City
...	...	...	...	...
9546	5915730	Naml\ Gurme	208	��stanbul
9547	5908749	Ceviz A��ac\	208	��stanbul
9548	5915807	Huqqa	208	��stanbul
9549	5916112	A���k Kahve	208	��stanbul
9550	5927402	Walter's Coffee Roastery	208	��stanbul

	Address
0	Third Floor, Century City Mall, Kalayaan Avenu...
1	Little Tokyo, 2277 Chino Roces Avenue, Legaspi...
2	Edsa Shangri-La, 1 Garden Way, Ortigas, Mandal...
3	Third Floor, Mega Fashion Hall, SM Megamall, O...
4	Third Floor, Mega Atrium, SM Megamall, Ortigas...
...	...
9546	Kemanke�� Karamustafa Pa��a Mahallesi, R\ht\m ...
9547	Ko��uyolu Mahallesi, Muhittin ��st�_nda�� Cadd...
9548	Kuru�_e��me Mahallesi, Muallim Naci Caddesi, N...
9549	Kuru�_e��me Mahallesi, Muallim Naci Caddesi, N...
9550	Cafea��a Mahallesi, Bademalt\ Sokak, No 21/B, ...

	Locality
0	Century City Mall, Poblacion, Makati City
1	Little Tokyo, Legaspi Village, Makati City
2	Edsa Shangri-La, Ortigas, Mandaluyong City
3	SM Megamall, Ortigas, Mandaluyong City
4	SM Megamall, Ortigas, Mandaluyong City
...	...
9546	Karak�_y
9547	Ko��uyolu
9548	Kuru�_e��me
9549	Kuru�_e��me
9550	Moda

	Locality Verbose	Longitude
0	Century City Mall, Poblacion, Makati City, Mak...	121.027535
1	Little Tokyo, Legaspi Village, Makati City, Ma...	121.014101
2	Edsa Shangri-La, Ortigas, Mandaluyong City, Ma...	121.056831
3	SM Megamall, Ortigas, Mandaluyong City, Mandal...	121.056475
4	SM Megamall, Ortigas, Mandaluyong City, Mandal...	121.057508
...	...	...
9546	Karak�_y, ��stanbul	28.977392
9547	Ko��uyolu, ��stanbul	29.041297

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```
9549                          Kuru□_e□□me, □□stanbul   29.036019
9550                                Moda, □□stanbul   29.026016

      Latitude                         Cuisines  ...  Has Online delivery  \
0    14.565443       French, Japanese, Desserts  ...                  NaN
1    14.553708                         Japanese  ...                  NaN
2    14.581404  Seafood, Asian, Filipino, Indian  ...                  NaN
3    14.585318                  Japanese, Sushi  ...                  NaN
4    14.584450                 Japanese, Korean  ...                  NaN
...        ...                              ...  ...                  ...
9546 41.022793                          Turkish  ...                  NaN
9547 41.009847   World Cuisine, Patisserie, Cafe  ...                  NaN
9548 41.055817           Italian, World Cuisine  ...                  NaN
9549 41.057979                  Restaurant Cafe  ...                  NaN
9550 40.984776                             Cafe  ...                  NaN

     Is delivering now Switch to order menu Price range Aggregate rating  \
0                   No                    No           3              4.8
1                   No                    No           3              4.5
2                   No                    No           4              4.4
3                   No                    No           4              4.9
4                   No                    No           4              4.8
...                ...                   ...         ...              ...
9546                No                    No           3              4.1
9547                No                    No           3              4.2
9548                No                    No           4              3.7
9549                No                    No           4              4.0
9550                No                    No           2              4.0

     Rating color Rating text  Votes Restaurant Name Length Address Length
0      Dark Green   Excellent    314                   16              71
1      Dark Green   Excellent    591                   16              67
2           Green   Very Good    270                   22              56
3      Dark Green   Excellent    365                    4              70
4      Dark Green   Excellent    229                   11              64
...           ...         ...    ...                  ...             ...
9546        Green   Very Good    788                   11             103
9547        Green   Very Good   1034                   12              77
9548       Yellow        Good    661                    5              73
9549        Green   Very Good    901                   11              75
9550        Green   Very Good    591                   24              65

[9551 rows x 23 columns]
```