Zomato Data analysis Report

Import the libraries

```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
import plotly.express as px
import plotly.graph_objects as go

pd.pandas.set_option('display.max_columns', None)
#for manipulating dataframe
#for performing mathematical calculations
#for data visualizations i.e. graphs and charts
#for advance data visualizations
#for advance data visualizations
```

Read the Dataset

```
In [206... #dataset1
    df = pd.read_csv('zomato.csv',encoding = 'latin-1')
In [207... df
```

7		Restaurant ID	Restaurant Name	Country Code	City	Address	Locality	Locality Verbose	Longitude	Latitude	Cuisines
	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
	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
	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
	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
	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
9		 5915730	NamlÛ± Gurme	208	 ÛÁstanbul	Kemankeô Karamustafa Paôa Mahallesi, RÛ±htÛ±	 Karakí_y	 Karakí_y, ÛÁstanbul	28.977392	41.022793	 Turkish
9	9547	5908749	Ceviz AÛôacÛ±	208	ÛÁstanbul	Koôuyolu Mahallesi, Muhittin íìstí_ndaÛô Cadd	Koôuyolu	Koôuyolu, ÛÁstanbul	29.041297	41.009847	World Cuisine, Patisserie, Cafe
9	9548	5915807	Huqqa	208	ÛÁstanbul	Kuruí_eôme Mahallesi, Muallim Naci Caddesi, N	Kuruí_eôme	Kuruí_eôme, ÛÁstanbul	29.034640	41.055817	Italian, World Cuisine
9	9549	5916112	Aôôk Kahve	208	ÛÁstanbul	Kuruí_eôme Mahallesi, Muallim Naci Caddesi, N	Kuruí_eôme	Kuruí_eôme, ÛÁstanbul	29.036019	41.057979	Restaurant Cafe
9	9550	5927402	Walter's Coffee Roastery	208	ÛÁstanbul	CafeaÛôa Mahallesi, BademaltÛ± Sokak, No 21/B,	Moda	Moda, ÛÁstanbul	29.026016	40.984776	Cafe
95		ws × 21 colu	ımns								
	 f.sha	ipe									
	(9551										
	datas		xcel(' <mark>Coun</mark> t	ry-Code	(1).xlsx')						
	<pre>df1 = pd.read_excel('Country-Code (1).xlsx')</pre>										

In [34]: df1

Out[34]:		Country Code	Country
	0	1	India
	1	14	Australia
	2	30	Brazil
	3	37	Canada
	4	94	Indonesia
	5	148	New Zealand
	6	162	Phillipines
	7	166	Qatar
	8	184	Singapore
	9	189	South Africa
	10	191	Sri Lanka
	11	208	Turkey
	12	214	UAE
	13	215	United Kingdom
	14	216	United States

Merge the both tables

```
In [35]: data = pd.merge(df,df1, on = 'Country Code', how = 'left')
In [36]: data
```

	Restaurant ID	Restaurant Name	Country Code	City	Address	Locality	Locality Verbose	Longitude	Latitude	Cuisines	A ^r C
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	
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	
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	
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	
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	
9546	5915730	NamlÛ± Gurme	208	ÛÁstanbul	Kemankeô Karamustafa Paôa Mahallesi, RÛ±htÛ±	Karakí_y	Karakí_y, ÛÁstanbul	28.977392	41.022793	Turkish	
9547	5908749	Ceviz AÛôacÛ±	208	ÛÁstanbul	Koôuyolu Mahallesi, Muhittin íìstí_ndaÛô Cadd	Koôuyolu	Koôuyolu, ÛÁstanbul	29.041297	41.009847	World Cuisine, Patisserie, Cafe	
9548	5915807	Huqqa	208	ÛÁstanbul	Kuruí_eôme Mahallesi, Muallim Naci Caddesi, N	Kuruí_eôme	Kuruí_eôme, ÛÁstanbul	29.034640	41.055817	Italian, World Cuisine	
9549	5916112	Aôôk Kahve	208	ÛÁstanbul	Kuruí_eôme Mahallesi, Muallim Naci Caddesi, N	Kuruí_eôme	Kuruí_eôme, ÛÁstanbul	29.036019	41.057979	Restaurant Cafe	
9550	5927402	Walter's Coffee Roastery	208	ÛÁstanbul	CafeaÛôa Mahallesi, BademaltÛ± Sokak, No 21/B,	Moda	Moda, ÛÁstanbul	29.026016	40.984776	Cafe	
9551 r	9551 rows × 22 columns										
4											Þ

Data Cleaning

Now, do some Descriptive Analysis

```
<class 'pandas.core.frame.DataFrame'>
       RangeIndex: 9551 entries, 0 to 9550
       Data columns (total 22 columns):
        # Column
                                Non-Null Count Dtype
                                 -----
        0 Restaurant ID
                               9551 non-null int64
                                               object
int64
            Restaurant Name
                                 9551 non-null
                                9551 non-null
           Country Code
                                 9551 non-null object
           City
                                 9551 non-null object
        4 Address
        5
                                 9551 non-null
            Locality
                                                object
            Locality Verbose
        6
                                 9551 non-null
                                                object
                                 9551 non-null
            Longitude
                                               float64
        8
                                 9551 non-null
                                               float64
          Latitude
        9
            Cuisines
                                 9542 non-null
                                               object
        10 Average Cost for two 9551 non-null int64
        11 Currency
                                 9551 non-null object
                                 9551 non-null object
        12 Has Table booking
        13 Has Online delivery 9551 non-null
                                                object
                                 9551 non-null
        14 Is delivering now
                                                object
        15 Switch to order menu 9551 non-null
                                                object
                                 9551 non-null
                                                int64
        16 Price range
        17 Aggregate rating
                                 9551 non-null
                                                float64
        18 Rating color
                                 9551 non-null
                                                object
        19 Rating text
                               9551 non-null
                                                object
                                 9551 non-null
        20 Votes
                                                int64
        21 Country
                                 9551 non-null
                                                object
       dtypes: float64(3), int64(5), object(14)
       memory usage: 1.6+ MB
In [39]: #check for null values
        data.isnull().sum()
Out[39]: Restaurant ID
                                0
         Restaurant Name
                               0
         Country Code
         City
         Address
         Locality
                               0
         Locality Verbose
         Longitude
         Latitude
                               0
         Cuisines
                               9
         Average Cost for two
         Currency
                               0
         Has Table booking
         Has Online delivery
                               0
         Is delivering now
         Switch to order menu
                               0
         Price range
         Aggregate rating
                               0
         Rating color
                               0
         Rating text
         Votes
                               0
         Country
                               0
         dtype: int64
In [44]: # remove the null values in 'cuisines' column
        data.dropna(subset = ['Cuisines'], inplace = True)
In [47]: #again check if there is any null value
        data.isnull().sum()
```

```
Restaurant Name
                                      0
                                      0
           Country Code
           City
           {\tt Address}
                                      0
           Locality
                                      0
           Locality Verbose
                                      0
           Longitude
                                      0
                                      0
           Latitude
           Cuisines
                                      0
           Average Cost for two
                                      0
                                      0
           Currency
                                      0
           Has Table booking
           Has Online delivery
                                      0
           Is delivering now
                                      0
           Switch to order menu
                                      0
           Price range
                                      0
           Aggregate rating
                                      0
                                      0
           Rating color
           Rating text
                                      0
                                      0
           Votes
           Country
                                      0
           dtype: int64
In [48]: data.describe()
Out[48]:
                    Restaurant
                                     Country
                                                                           Average Cost for
                                                                                                              Aggregate
                                               Longitude
                                                              Latitude
                                                                                             Price range
                                                                                                                                Votes
                                       Code
                                                                                      two
                                                                                                                  rating
          count 9.542000e+03
                                 9542.000000
                                              9542.000000
                                                           9542.000000
                                                                               9542.000000
                                                                                           9542.000000
                                                                                                            9542.000000
                                                                                                                          9542.000000
                 9.043301e+06
                                   18.179208
                                                64.274997
                                                             25.848532
                                                                               1200.326137
                                                                                               1.804968
                                                                                                               2.665238
                                                                                                                           156.772060
             std 8.791967e+06
                                   56.451600
                                                41.197602
                                                             11.010094
                                                                              16128.743876
                                                                                               0.905563
                                                                                                               1.516588
                                                                                                                           430.203324
            min 5.300000e+01
                                                                                  0.000000
                                                                                                               0.000000
                                    1.000000
                                              -157.948486
                                                            -41.330428
                                                                                               1.000000
                                                                                                                             0.000000
                                                                                250.000000
                                                                                                                             5.000000
            25%
                 3.019312e+05
                                    1.000000
                                                77.081565
                                                             28.478658
                                                                                               1.000000
                                                                                                               2.500000
            50%
                 6.002726e+06
                                    1.000000
                                                77.192031
                                                             28.570444
                                                                                400.000000
                                                                                               2.000000
                                                                                                               3.200000
                                                                                                                            31.000000
                                                             28.642711
            75% 1.835260e+07
                                    1.000000
                                                77.282043
                                                                                700.000000
                                                                                               2.000000
                                                                                                               3.700000
                                                                                                                           130.000000
                                  216.000000
                                                                             800000.000000
                                                                                               4.000000
            max 1.850065e+07
                                               174.832089
                                                             55.976980
                                                                                                               4.900000
                                                                                                                         10934.000000
In [49]: data.shape
Out[49]:
           (9542, 22)
In [52]:
          #count the countries
          counts = data.Country.value_counts()
In [53]: counts
Out[53]: Country
                               8652
           India
           United States
                                425
           United Kingdom
                                 80
           Brazil
                                 60
           South Africa
                                 60
           UAE
                                 60
           New Zealand
                                 40
           Turkey
                                 34
           Australia
                                 24
           Phillipines
                                 22
                                 21
           Indonesia
           Qatar
                                 20
           Singapore
                                 20
           Sri Lanka
                                 20
           Canada
                                  4
           Name: count, dtype: int64
In [59]: country name = counts.index
          country_name
Out[59]: Index(['India', 'United States', 'United Kingdom', 'Brazil', 'South Africa',
                   'UAE', 'New Zealand', 'Turkey', 'Australia', 'Phillipines', 'Indonesia', 'Qatar', 'Singapore', 'Sri Lanka', 'Canada'],
```

Data Analysis

dtype='object', name='Country')

Out[47]: Restaurant ID

0

que1: Find the top 5 countries according to counts

```
In []: #This graph is done with plotly

c = ['pink','yellow','grey','green','red']
    ex = [0.0,0.0,0.0,0.4,0.0]
    plt.pie(counts[:5],labels = country_name[:5], autopct = '%1.1f%%',colors = c,explode = ex)
    plt.legend()
    plt.show()

In [107... #this chart is more clear

fig = go.Figure(data = [go.Pie(labels = country_name[:5],values = counts[:5])])
    fig.update_layout(title_text = "Top 5 Countries which has maximum counts")
```

que2: What are the maximum ratings given by citizens

Out[116		Aggregate rating	Rating color	Rating text	0
	0	0.0	White	Not rated	2148
	1	1.8	Red	Poor	1
	2	1.9	Red	Poor	2
	3	2.0	Red	Poor	7
	4	2.1	Red	Poor	15
	5	2.2	Red	Poor	27
	6	2.3	Red	Poor	47
	7	2.4	Red	Poor	87
	8	2.5	Orange	Average	110
	9	2.6	Orange	Average	191
	10	2.7	Orange	Average	250
	11	2.8	Orange	Average	315
	12	2.9	Orange	Average	381
	13	3.0	Orange	Average	468
	14	3.1	Orange	Average	519
	15	3.2	Orange	Average	522
	16	3.3	Orange	Average	483
	17	3.4	Orange	Average	495
	18	3.5	Yellow	Good	480
	19	3.6	Yellow	Good	458
	20	3.7	Yellow	Good	427
	21	3.8	Yellow	Good	399
	22	3.9	Yellow	Good	332
	23	4.0	Green	Very Good	266
	24	4.1	Green	Very Good	274
	25	4.2	Green	Very Good	221
	26	4.3	Green	Very Good	174
	27	4.4	Green	Very Good	143
	28	4.5	Dark Green	Excellent	95
	29	4.6	Dark Green	Excellent	78
	30	4.7	Dark Green	Excellent	41

4.8 Dark Green

Dark Green

4.9

31

32

```
In [119... ## rename the column "0"
    ratings = data.groupby(['Aggregate rating','Rating color','Rating text']).size().reset_index().rename(columns={
    ratings
```

Excellent

Excellent

25

61

Out[119		Aggregate rating	Rating color	Rating text	Counting
	0	0.0	White	Not rated	2148
	1	1.8	Red	Poor	1
	2	1.9	Red	Poor	2
	3	2.0	Red	Poor	7
	4	2.1	Red	Poor	15
	5	2.2	Red	Poor	27
	6	2.3	Red	Poor	47
	7	2.4	Red	Poor	87
	8	2.5	Orange	Average	110
	9	2.6	Orange	Average	191
	10	2.7	Orange	Average	250
	11	2.8	Orange	Average	315
	12	2.9	Orange	Average	381
	13	3.0	Orange	Average	468
	14	3.1	Orange	Average	519
	15	3.2	Orange	Average	522
	16	3.3	Orange	Average	483
	17	3.4	Orange	Average	495
	18	3.5	Yellow	Good	480
	19	3.6	Yellow	Good	458
	20	3.7	Yellow	Good	427
	21	3.8	Yellow	Good	399
	22	3.9	Yellow	Good	332
	23	4.0	Green	Very Good	266
	24	4.1	Green	Very Good	274
	25	4.2	Green	Very Good	221
	26	4.3	Green	Very Good	174
	27	4.4	Green	Very Good	143
	28	4.5	Dark Green	Excellent	95
	29	4.6	Dark Green	Excellent	78
	30	4.7	Dark Green	Excellent	41
	31	4.8	Dark Green	Excellent	25

```
In [ ]: ''' So, here we seen in our Analysis that
```

4.9 Dark Green

- 1. 0.0 rating is in white color which is not rated 2. 1.8 2.4 has given red color which is Poor
- 3. 2.5 3.4 has given orange color which is average
- 4. 3.5 3.9 has given yellow color which is Good
- 5. 4.0 4.4 has given green color which is very Good 6. 4.5 4.9 has given dark green which is excellent '''

Excellent

61

In [120... ratings.describe()

32

Out[120...

	Aggregate rating	Counting
count	33.000000	33.000000
mean	3.248485	289.151515
std	1.092051	379.913980
min	0.000000	1.000000
25%	2.500000	61.000000
50%	3.300000	221.000000
75%	4.100000	427.000000
max	4.900000	2148.000000

```
In [131… ## draw the chart
           plt.figure(figsize=(13,6))
           sns.barplot(x = 'Aggregate rating', y = 'Counting', data = ratings)
Out[131... <Axes: xlabel='Aggregate rating', ylabel='Counting'>
            2000
           1500
         Counting
1000
            500
                  0.0 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9
                                                                      Aggregate rating
In [134... c = ['lightgreen','red','orange','yellow','green','darkgreen']
           plt.figure(figsize=(13,6))
           sns.barplot(x = 'Aggregate rating',y = 'Counting',data = ratings,hue = 'Rating color',palette = c)
Out[134... <Axes: xlabel='Aggregate rating', ylabel='Counting'>
                                                                                                                           Rating color
                                                                                                                             White
           2000
                                                                                                                             Red
                                                                                                                              Orange
                                                                                                                              Yellow
                                                                                                                             Green
                                                                                                                             Dark Green
           1500
         Counting
1000
            500
                  0.0 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9
                                                                      Aggregate rating
```

que3: Countries that has given 0 ratings

que4: Find the Currency which is maximum used

Out[141...

Country No ratings

```
In [157... data.groupby(['Currency','Country']).size().reset_index().rename(columns = {0:'No. of Currencies'}).sort_values
Out[157...
                            Currency
                                              Country No. of Currencies
            7
                    Indian Rupees(Rs.)
                                                                   8652
                                                 India
            5
                             Dollar($)
                                         United States
                                                                     425
           10
                            Pounds(£)
                                       United Kingdom
                                                                      80
            6
                    Emirati Diram(AED)
                                                 UAE
                                                                      60
           12
                             Rand(R)
                                          South Africa
                                                                      60
            1
                     Brazilian Real(R$)
                                                Brazil
                                                                      60
            9
                       NewZealand($)
                                         New Zealand
                                                                      40
           14
                       Turkish Lira(TL)
                                               Turkey
                                                                      34
            2
                             Dollar($)
                                             Australia
                                                                      24
            0
                     Botswana Pula(P)
                                            Phillipines
                                                                      22
            8
               Indonesian Rupiah(IDR)
                                             Indonesia
                                                                      21
           11
                       Qatari Rial(QR)
                                                Qatar
                                                                      20
            4
                             Dollar($)
                                            Singapore
                                                                      20
           13
               Sri Lankan Rupee(LKR)
                                             Sri Lanka
                                                                      20
            3
```

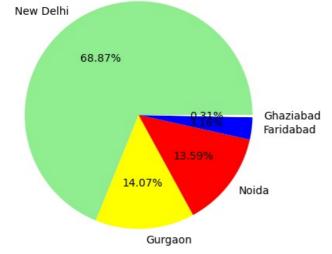
Que5: Find the countries who have online options

From this observation we have seen that the maximum currencies are from INDIA i.e 8652 '''

Que6: Find the top 5 cities distribution

```
In [178_ max_cities = data.City.value_counts().reset_index()
    max_cities
```

```
4 Ghaziabad
          135
                 Inverloch
          136
                   Mohali
          137 Panchkula
          138
                 Bandung
          139
                Randburg
          140 rows × 2 columns
In [179...
          city_values = data.City.value_counts().values
          city_values
Out[179... array([5473, 1118, 1080,
                                                                                         20,
                                        251,
                                                25,
                                                       21,
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                      1,
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                                   1,
                                          1,
                                                 1,
                                                        1,
                                                                      1])
In [181... city labels = data.City.value counts().index
          city_labels
Out[181... Index(['New Delhi', 'Gurgaon', 'Noida', 'Faridabad', 'Ghaziabad',
                   'Bhubaneshwar', 'Ahmedabad', 'Lucknow', 'Guwahati', 'Amritsar',
                   'Forrest', 'Dicky Beach', 'Flaxton', 'Huskisson', 'Lakes Entrance', 'Inverloch', 'Mohali', 'Panchkula', 'Bandung', 'Randburg'],
                 dtype='object', name='City', length=140)
In [192... c = ['lightgreen', 'yellow', 'red', 'blue', 'white']
          plt.pie(city_values[:5],labels = city_labels[:5],autopct = '%1.2f%%',colors = c)
          plt.show()
```



Out[170...

City count

5473 1118

1080

251

25

0 New Delhi

Gurgaon Noida

Faridabad

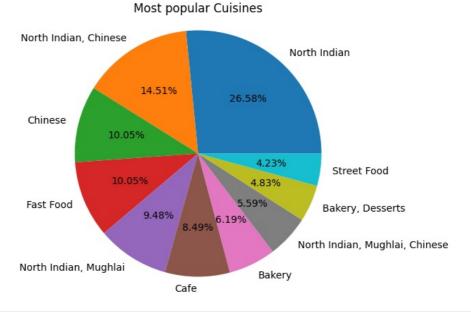
Que7: Find the top 10 cuisines served by the restaurants

Out[199		Cuisines	count
	0	North Indian	936
	1	North Indian, Chinese	511
	2	Chinese	354
	3	Fast Food	354
	4	North Indian, Mughlai	334
	1820	World Cuisine, Patisserie, Cafe	1
	1821	Burger, Izgara	1
	1822	Desserts, Bí_rek	1
	1823	Restaurant Cafe, Turkish, Desserts	1
	1824	Restaurant Cafe, Desserts	1

1825 rows × 2 columns

```
In [213... data['Cuisines'].value_counts().sort_values(ascending = False).head(10)
Out[213... Cuisines
          North Indian
                                             936
          North Indian, Chinese
                                             511
                                             354
          Chinese
          Fast Food
                                             354
          North Indian, Mughlai
                                             334
          Cafe
                                             299
                                             218
          Bakery
          North Indian, Mughlai, Chinese
                                             197
          Bakery, Desserts
                                             170
                                             149
          Street Food
          Name: count, dtype: int64
In [232... data['Cuisines'].value counts().sort values(ascending = False).head(10).plot(kind = 'pie',figsize = (12,5),auto
         plt.axis('equal')
Out[232... (np.float64(-1.099999947692328),
           np.float64(1.0999999975091586),
           np.float64(-1.1000000038455147),
           np.float64(1.0999997430473287))
```





In []: ''' so, this is our final analysis'''