

EDA for zomato dataset

```
In [3]: # import all the libraries
import numpy as np
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
%matplotlib inline
```

```
In [7]: # Read the zomato dataset
df = pd.read_csv('/Users/madhu/Desktop/Data Science/iNeuron/EDA/zomato.csv', encoding='latin-1')
df.head()
```

```
Out[7]:
```

	Restaurant ID	Restaurant Name	Country Code	City	Address	Locality	Locality Verbose	Longitude	Latitude	Cuisines	...	Currency	Has Table booking	Has Online delivery	delivery
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	
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	
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	
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	

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
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5 rows × 21 columns

```
In [8]: # Get the columns of df
df.columns
```

```
Out[8]: 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')
```

```
In [10]: # gives the basic info about data
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 9551 entries, 0 to 9550
Data columns (total 21 columns):
#   Column                                Non-Null Count  Dtype
---  -
0   Restaurant ID                        9551 non-null   int64
1   Restaurant Name                      9551 non-null   object
2   Country Code                        9551 non-null   int64
3   City                                9551 non-null   object
4   Address                             9551 non-null   object
5   Locality                            9551 non-null   object
6   Locality Verbose                    9551 non-null   object
7   Longitude                           9551 non-null   float64
8   Latitude                           9551 non-null   float64
9   Cuisines                            9542 non-null   object
10  Average Cost for two                 9551 non-null   int64
11  Currency                            9551 non-null   object
12  Has Table booking                   9551 non-null   object
13  Has Online delivery                 9551 non-null   object
14  Is delivering now                   9551 non-null   object
15  Switch to order menu                9551 non-null   object
16  Price range                         9551 non-null   int64
17  Aggregate rating                    9551 non-null   float64
18  Rating color                        9551 non-null   object
19  Rating text                         9551 non-null   object
```

20 Votes 9551 non-null int64
dtypes: float64(3), int64(5), object(13)
memory usage: 1.5+ MB

```
In [11]: # gives basic stats value of numerical variable  
df.describe()
```

```
Out[11]:
```

	Restaurant ID	Country Code	Longitude	Latitude	Average Cost for two	Price range	Aggregate rating	Votes
count	9.551000e+03	9551.000000	9551.000000	9551.000000	9551.000000	9551.000000	9551.000000	9551.000000
mean	9.051128e+06	18.365616	64.126574	25.854381	1199.210763	1.804837	2.666370	156.909748
std	8.791521e+06	56.750546	41.467058	11.007935	16121.183073	0.905609	1.516378	430.169145
min	5.300000e+01	1.000000	-157.948486	-41.330428	0.000000	1.000000	0.000000	0.000000
25%	3.019625e+05	1.000000	77.081343	28.478713	250.000000	1.000000	2.500000	5.000000
50%	6.004089e+06	1.000000	77.191964	28.570469	400.000000	2.000000	3.200000	31.000000
75%	1.835229e+07	1.000000	77.282006	28.642758	700.000000	2.000000	3.700000	131.000000
max	1.850065e+07	216.000000	174.832089	55.976980	800000.000000	4.000000	4.900000	10934.000000

In Data Analysis What All Things We Do

1. Missing Values
2. Explore About the Numerical Variables
3. Explore About categorical Variables
4. Finding Relationship between features

```
In [15]: # Fins if there is any null value in any of the column.  
# From the data we can say "cuisines" feature is having 9 null value  
df.isnull().sum()
```

```
Out[15]:
```

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
```

```
In [19]: # Find only that particular column/feature which is having null value using list comprehension.
[features for features in df.columns if df[features].isnull().sum()>0]
```

```
Out[19]: ['Cuisines']
```

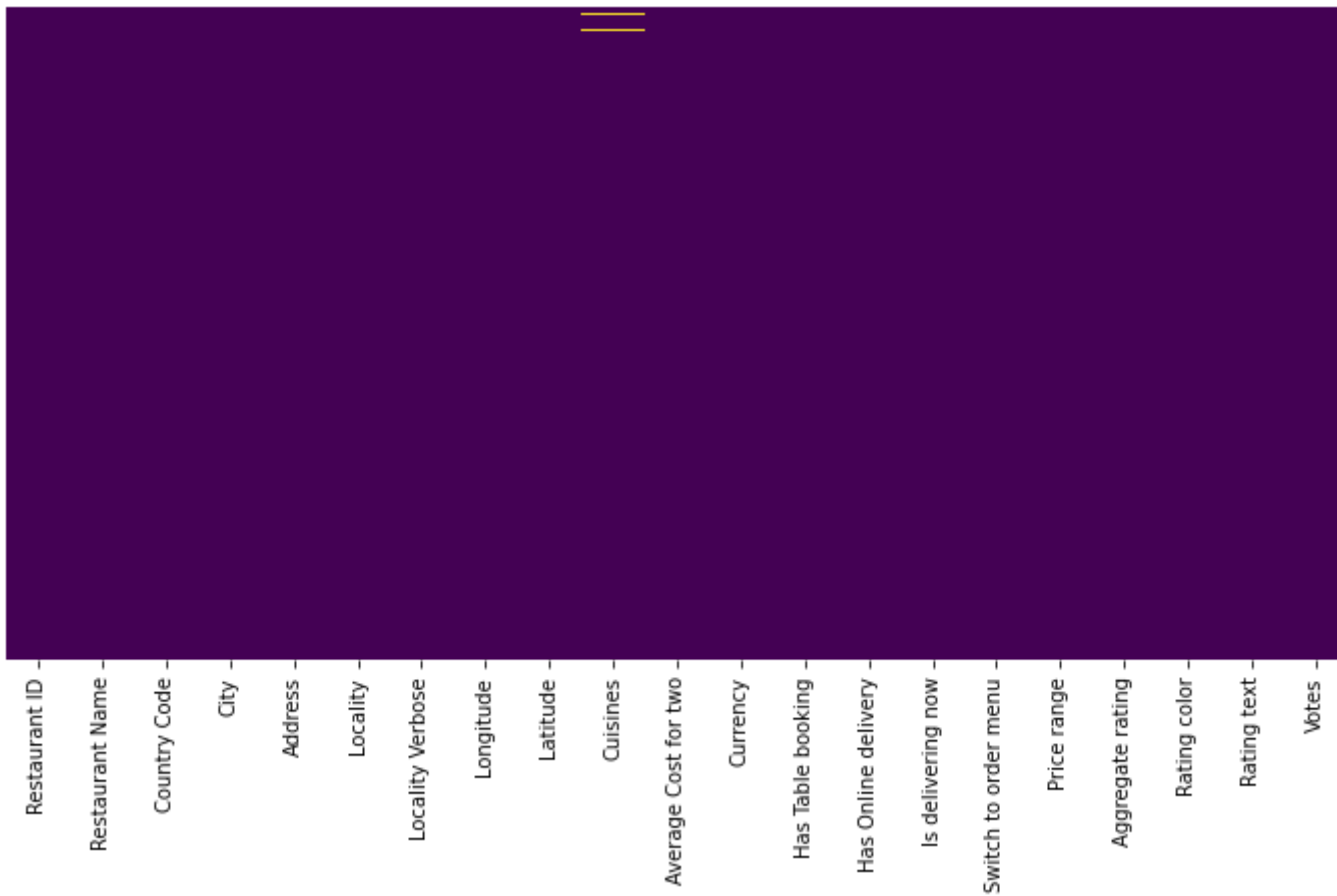
```
In [16]: df.columns
```

```
Out[16]: 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')
```

Heatmap for zomato dataset

```
In [84]: # 9551 rows are there so it didn't come properly.
plt.rcParams['figure.figsize'] = (12, 6)
sns.heatmap(df.isnull(),yticklabels=False,cbar=False,cmap='viridis')
```

```
Out[84]: <AxesSubplot:>
```



In [24]: `df.shape`

Out[24]: (9551, 21)

In [26]: `# Read Country-code dataset`
`df_country = pd.read_excel('/Users/madhu/Desktop/Data Science/iNeuron/EDA/country-code.xlsx')`
`df_country.head()`

Out[26]:

	Country Code	Country
0	1	India
1	14	Australia
2	30	Brazil
3	37	Canada
4	94	Indonesia

```
In [30]: # Since we have country-code column in both the dataset(i.e zomato and country-code) also hence try to combine both the dataset
df.columns
```

```
Out[30]: 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')
```

Merge both the dataset

```
In [35]: final_df = pd.merge(df, df_country, on = 'Country Code', how = 'left' )
final_df.head(2)
```

```
Out[35]:
```

	Restaurant ID	Restaurant Name	Country Code	City	Address	Locality	Locality Verbose	Longitude	Latitude	Cuisines	...	Has Table booking	Has Online delivery	Is delivering now	Switch to order menu	Price range	A
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	...	Yes	No	No	No	3	
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	...	Yes	No	No	No	3	

2 rows × 22 columns

```
In [37]: # Check the data type
final_df.dtypes
```

```
Out[37]: 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
Country               object
dtype: object

```

```
In [38]: final_df.columns
```

```

Out[38]: 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', 'Country'],
              dtype='object')

```

Find out how many countries are there and w.r.t country how many records are there?

```

In [43]: # Observation:- Zomato is mainly in India
         final_df.Country.value_counts()

```

```

Out[43]: India          8652
         United States   434
         United Kingdom   80
         Brazil          60
         UAE             60
         South Africa    60
         New Zealand     40
         Turkey          34
         Australia       24
         Phillipines     22
         Indonesia       21
         Singapore       20

```

```
Qatar          20
Sri Lanka      20
Canada         4
Name: Country, dtype: int64
```

Get all the clountry name seperately

```
In [47]: country_names = final_df.Country.value_counts().index
country_names
```

```
Out[47]: Index(['India', 'United States', 'United Kingdom', 'Brazil', 'UAE',
               'South Africa', 'New Zealand', 'Turkey', 'Australia', 'Phillipines',
               'Indonesia', 'Singapore', 'Qatar', 'Sri Lanka', 'Canada'],
              dtype='object')
```

Get all the values seperately

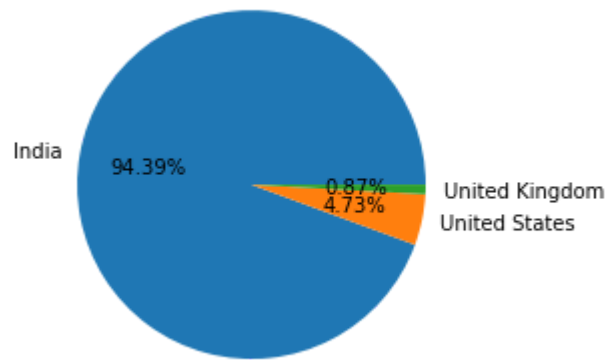
```
In [52]: country_val = final_df.Country.value_counts().values
country_val
```

```
Out[52]: array([8652, 434, 80, 60, 60, 60, 40, 34, 24, 22, 21,
                20, 20, 20, 4])
```

pie chart between Top 3 country_name and country_value

```
In [57]: # we use autopct= '%1.2f%%' to get the percentage
plt.pie(country_val[:3], labels=country_names[:3], autopct= '%1.2f%%')
```

```
Out[57]: ([<matplotlib.patches.Wedge at 0x7fbae3c810d0>,
          <matplotlib.patches.Wedge at 0x7fbae3c8b700>,
          <matplotlib.patches.Wedge at 0x7fbae3c8bca0>],
 [Text(-1.0829742700952103, 0.19278674827836725, 'India'),
  Text(1.077281715838356, -0.22240527134123297, 'United States'),
  Text(1.0995865153823035, -0.030157837943120734, 'United Kingdom')],
 [Text(-0.590713238233751, 0.10515640815183668, '94.39%'),
  Text(0.5876082086391032, -0.12131196618612707, '4.73%'),
  Text(0.5997744629358018, -0.016449729787156763, '0.87%')])
```

Observation: Zomato maximum records or transaction are from India. After that, USA and then United Kingdoms.

```
In [58]: final_df.columns
```

```
Out[58]: 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', 'Country'],
            dtype='object')
```

```
In [69]: # perform group by operation on the Aggregate Rating, Rating color, Rating text
# reset_index() resets the index and converts it into a data frame.

ratings = final_df.groupby(['Aggregate rating', 'Rating color', 'Rating text']).size().reset_index().rename(columns = {0: 'Rating Count'})
```

```
In [70]: ratings
```

```
Out[70]:
```

	Aggregate rating	Rating color	Rating text	Rating Count
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	498
18	3.5	Yellow	Good	480
19	3.6	Yellow	Good	458
20	3.7	Yellow	Good	427
21	3.8	Yellow	Good	400
22	3.9	Yellow	Good	335
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	144
28	4.5	Dark Green	Excellent	95
29	4.6	Dark Green	Excellent	78
30	4.7	Dark Green	Excellent	42
31	4.8	Dark Green	Excellent	25
32	4.9	Dark Green	Excellent	61

Observation

1. When Rating is between 4.5 to 4.9---> Excellent
2. When Rating are between 4.0 to 4.4--->very good

3. when Rating is between 3.5 to 3.9----> good
4. when Rating is between 2.5 to 3.4----> average
5. when Rating is between 1.8 to 2.4----> Poor
6. When Reating is 0 ----> not rated

```
In [75]: ratings.head()
```

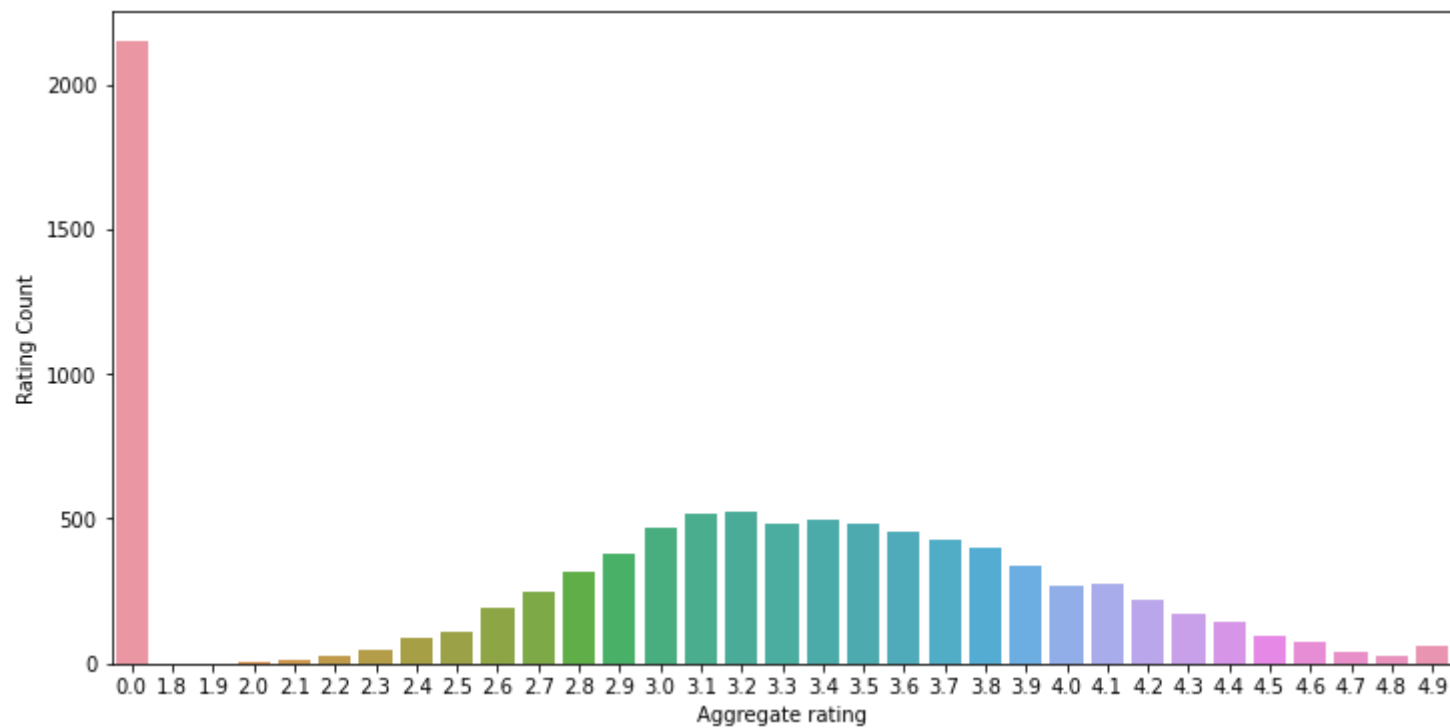
```
Out[75]:
```

	Aggregate rating	Rating color	Rating text	Rating Count
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

Bar plot

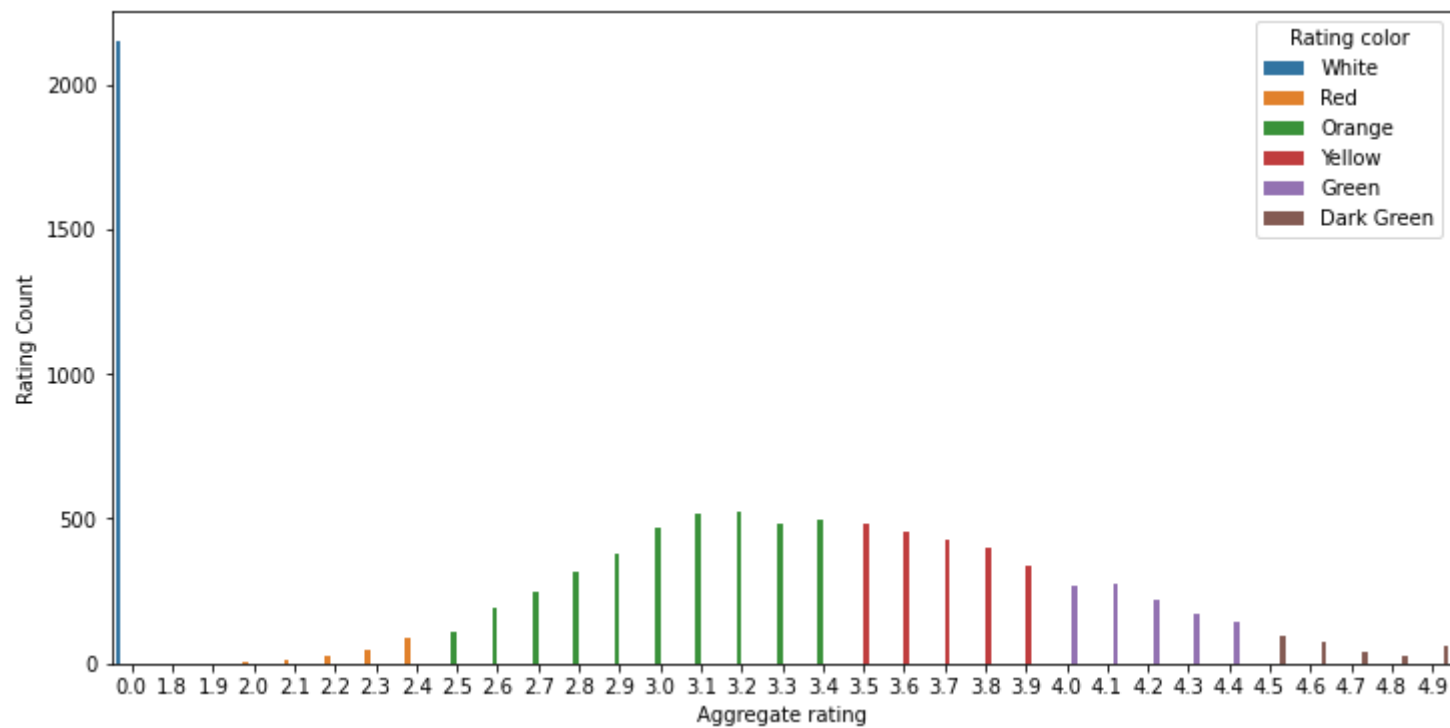
```
In [83]: plt.rcParams['figure.figsize'] = (12, 6)
sns.barplot(x = 'Aggregate rating', y = 'Rating Count', data = ratings)
```

```
Out[83]: <AxesSubplot:xlabel='Aggregate rating', ylabel='Rating Count'>
```

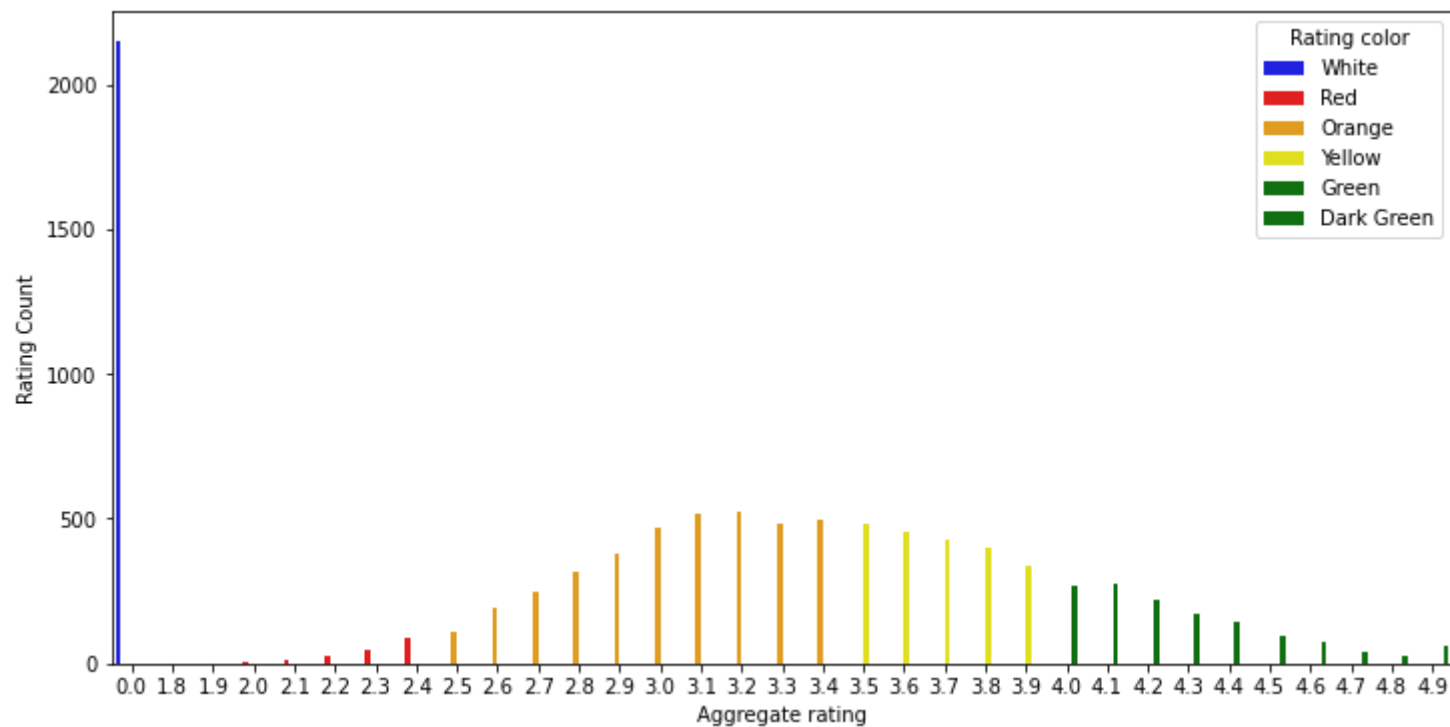


```
In [85]: # hue = 'Rating color' It will catogrise it into different colors
plt.rcParams['figure.figsize'] = (12, 6)
sns.barplot(x = 'Aggregate rating', y = 'Rating Count', hue = 'Rating color', data = ratings)
```

```
Out[85]: <AxesSubplot:xlabel='Aggregate rating', ylabel='Rating Count'>
```



```
In [106... # Map the colours
sns.barplot(x = 'Aggregate rating', y = 'Rating Count', hue = 'Rating color', data= ratings, palette=['blue', 'Red', 'Orange',
Out[106]: <AxesSubplot:xlabel='Aggregate rating', ylabel='Rating Count'>
```



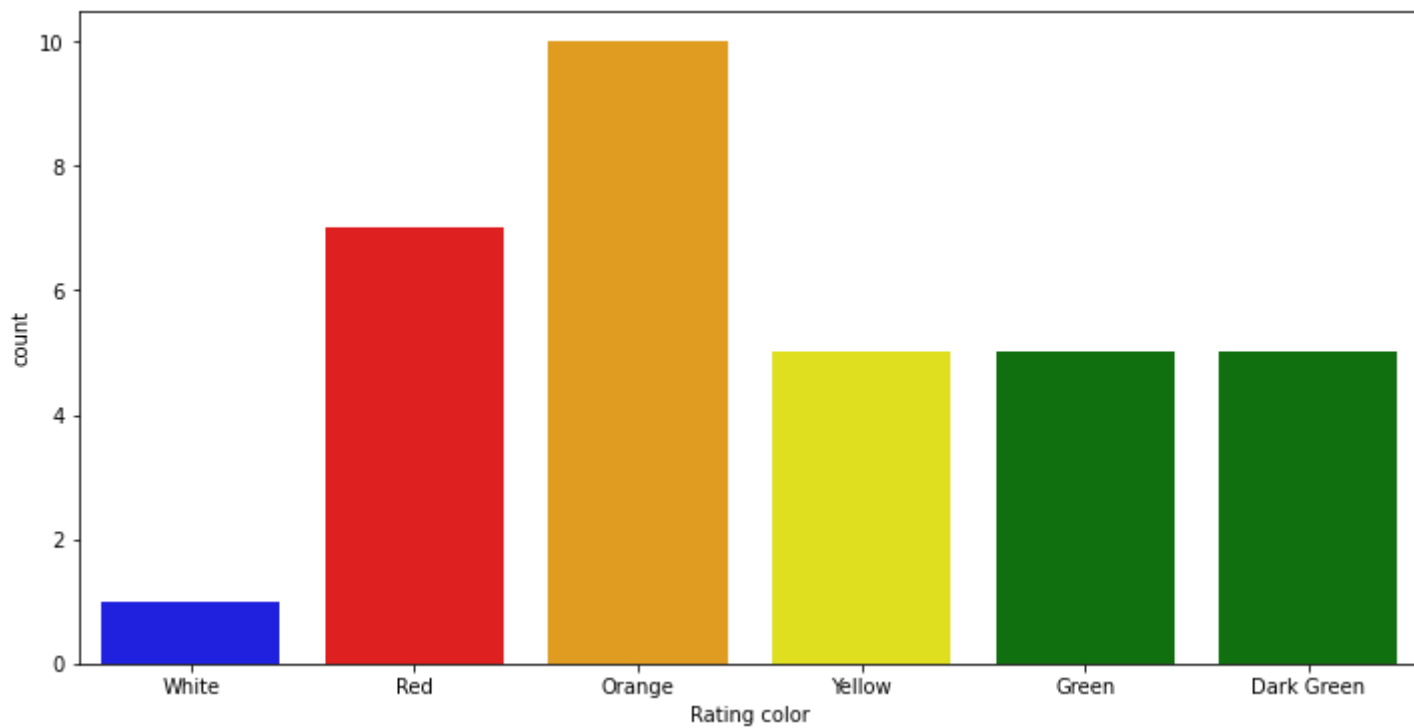
Observation:

1. Not Rated count is very high
2. Maximum number of rating are between 2.5 to 3.4

Count Plot

```
In [105... # Basically we use it for plotting catogrical variables.
# On y axis we have frequency. white-1, red- 7, yellow-5 , orange-10 and so on..
sns.countplot(x = 'Rating color', data = ratings, palette =['blue', 'Red', 'Orange', 'Yellow', 'Green', 'Green'] )
```

```
Out[105]: <AxesSubplot:xlabel='Rating color', ylabel='count'>
```



In [107... ratings

Out[107]:

	Aggregate rating	Rating color	Rating text	Rating Count
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	498
18	3.5	Yellow	Good	480
19	3.6	Yellow	Good	458
20	3.7	Yellow	Good	427
21	3.8	Yellow	Good	400
22	3.9	Yellow	Good	335
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	144
28	4.5	Dark Green	Excellent	95
29	4.6	Dark Green	Excellent	78
30	4.7	Dark Green	Excellent	42
31	4.8	Dark Green	Excellent	25
32	4.9	Dark Green	Excellent	61

Find the countries name that has given 0 rating

```
In [115... final_df.columns
```

```
Out[115]: 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', 'Country'],
        dtype='object')
```

```
In [143... final_df[final_df['Aggregate rating'] ==0].groupby('Country').size().reset_index()
```


Out[143]:

	Country	0
0	Brazil	5
1	India	2139
2	United Kingdom	1
3	United States	3

In [139... `final_df.groupby(['Aggregate rating', 'Country']).size().reset_index().head(5)`

Out[139]:

	Aggregate rating	Country	0
0	0.0	Brazil	5
1	0.0	India	2139
2	0.0	United Kingdom	1
3	0.0	United States	3
4	1.8	India	1

Observations Maximum number of 0 ratings are from Indian customers

find out which currency is used by which country?

In [146... `final_df.columns`

Out[146]:

```
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', 'Country'],
      dtype='object')
```

In [150... `final_df.groupby(['Country', 'Currency']).size().reset_index()`

Out[150]:

	Country	Currency	0
0	Australia	Dollar(\$)	24
1	Brazil	Brazilian Real(R\$)	60
2	Canada	Dollar(\$)	4
3	India	Indian Rupees(Rs.)	8652

4	Indonesia	Indonesian Rupiah(IDR)	21
5	New Zealand	NewZealand(\$)	40
6	Phillipines	Botswana Pula(P)	22
7	Qatar	Qatari Rial(QR)	20
8	Singapore	Dollar(\$)	20
9	South Africa	Rand(R)	60
10	Sri Lanka	Sri Lankan Rupee(LKR)	20
11	Turkey	Turkish Lira(TL)	34
12	UAE	Emirati Diram(AED)	60
13	United Kingdom	Pounds(£)	80
14	United States	Dollar(\$)	434

Which Countries do have online deliveries option??

In [170]... `final_df.columns`

Out[170]: 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', 'Country'],
dtype='object')

In [176]... `final_df[final_df['Has Online delivery'] == "Yes"].Country.value_counts()`

Out[176]: India 2423
UAE 28
Name: Country, dtype: int64

In [182]... `final_df.groupby(['Has Online delivery', 'Country']).size().reset_index()`

Out[182]:

	Has Online delivery	Country	0
0	No	Australia	24
1	No	Brazil	60
2	No	Canada	4
3	No	India	6229

4	No	Indonesia	21
5	No	New Zealand	40
6	No	Phillipines	22
7	No	Qatar	20
8	No	Singapore	20
9	No	South Africa	60
10	No	Sri Lanka	20
11	No	Turkey	34
12	No	UAE	32
13	No	United Kingdom	80
14	No	United States	434
15	Yes	India	2423
16	Yes	UAE	28

Observations:

Online Deliveries are available in India and UAE

Create a pie chart for top 5 cities distribution

```
In [183... final_df.columns
```

```
Out[183]: 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', 'Country'],
        dtype='object')
```

```
In [193... city_labels = final_df['City'].value_counts().index
city_labels
```

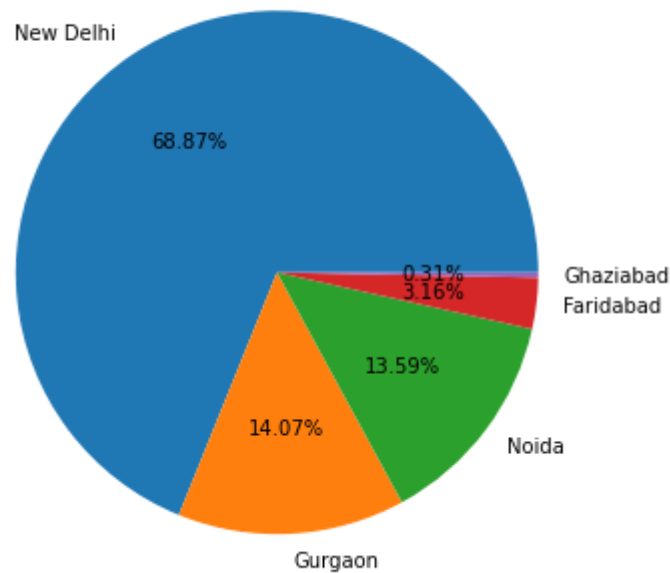
```
Out[193]: Index(['New Delhi', 'Gurgaon', 'Noida', 'Faridabad', 'Ghaziabad',
        'Bhubaneshwar', 'Amritsar', 'Ahmedabad', 'Lucknow', 'Guwahati',
        ...,
        'Ojo Caliente', 'Montville', 'Monroe', 'Miller', 'Middleton Beach',
```

```
'Panchkula', 'Mc Millan', 'Mayfield', 'Macedon', 'Vineland Station'],  
dtype='object', length=141)
```

```
In [206... city_values = final_df['City'].value_counts().values
```

```
In [210... plt.pie(city_values[:5], labels = city_labels[:5], autopct='%1.2f%%')
```

```
Out[210]: ([<matplotlib.patches.Wedge at 0x7fbac29b8be0>,  
  <matplotlib.patches.Wedge at 0x7fbac29b8400>,  
  <matplotlib.patches.Wedge at 0x7fbac1f34370>,  
  <matplotlib.patches.Wedge at 0x7fbac1f34be0>,  
  <matplotlib.patches.Wedge at 0x7fbac29bbdc0>],  
 [Text(-0.6145352824185932, 0.9123301960708633, 'New Delhi'),  
  Text(0.0623675251198054, -1.0982305276263407, 'Gurgaon'),  
  Text(0.8789045225625368, -0.6614581167535246, 'Noida'),  
  Text(1.0922218418223437, -0.13058119407559224, 'Faridabad'),  
  Text(1.099946280005612, -0.010871113182029922, 'Ghaziabad')],  
 [Text(-0.3352010631374145, 0.497634652402289, '68.87%'),  
  Text(0.0340186500653484, -0.5990348332507311, '14.07%'),  
  Text(0.47940246685229276, -0.36079533641101336, '13.59%'),  
  Text(0.5957573682667329, -0.07122610585941394, '3.16%'),  
  Text(0.5999706981848791, -0.005929698099289048, '0.31%')])
```



Find the top 10 cuisines

```
In [212... final_df.columns
```

```
Out[212]: 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', 'Country'],  
          dtype='object')
```

```
In [217... final_df['Cuisines'].value_counts()[:10]
```

```
Out[217]: 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: Cuisines, dtype: int64
```

```
In [ ]:
```