

Zomato dataset exploratory data analysis

```
In [32]: pip install openpyxl
```

```
Collecting openpyxl
  Downloading openpyxl-3.1.4-py2.py3-none-any.whl.metadata (2.5 kB)
Collecting et_xmlfile (from openpyxl)
  Downloading et_xmlfile-1.1.0-py3-none-any.whl.metadata (1.8 kB)
Downloading openpyxl-3.1.4-py2.py3-none-any.whl (251 kB)
----- 0.0/251.4 kB ? eta -:-:--
----- 0.0/251.4 kB ? eta -:-:--
----- 10.2/251.4 kB ? eta -:-:--
----- 30.7/251.4 kB 435.7 kB/s eta 0:00:01
----- 71.7/251.4 kB 491.5 kB/s eta 0:00:01
----- 122.9/251.4 kB 654.9 kB/s eta 0:00:01
----- 235.5/251.4 kB 962.7 kB/s eta 0:00:01
----- 251.4/251.4 kB 909.9 kB/s eta 0:00:00
Downloading et_xmlfile-1.1.0-py3-none-any.whl (4.7 kB)
Installing collected packages: et_xmlfile, openpyxl
Successfully installed et_xmlfile-1.1.0 openpyxl-3.1.4
Note: you may need to restart the kernel to use updated packages.
```

```
In [68]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
%matplotlib inline
```

zomato exploratory data analysis

```
In [3]: df=pd.read_csv(r'C:\Users\Shree\Documents\Learning DA\Python_Amazon_Sales_Analysis-main\Zomatodataset\zomato.csv')
```

```
In [4]: df.head()
```

Out[4]:

	Restaurant ID	Restaurant Name	Country Code	City	Address	Locality	Locality Verbose	Longitude	Latitude	Cuisines	...	Curr
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	...	Bots Pt
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	...	Bots Pt
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	...	Bots Pt
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	...	Bots Pt
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	...	Bots Pt

5 rows × 21 columns

```
In [5]: df.columns
```

```
Out[5]: 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 [6]: 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 [7]: df.describe()
```

	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 [8]: df.shape
```

```
Out[8]: (9551, 21)
```

```
In [9]: df.isnull().sum()
```

```
Out[9]: 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 [24]: df.isnull()
```

Out[24]:

	Restaurant ID	Restaurant Name	Country Code	City	Address	Locality	Locality Verbose	Longitude	Latitude	Cuisines	...	Currency	Has Table booking
0	False	False	False	False	False	False	False	False	False	False	...	False	False
1	False	False	False	False	False	False	False	False	False	False	...	False	False
2	False	False	False	False	False	False	False	False	False	False	...	False	False
3	False	False	False	False	False	False	False	False	False	False	...	False	False
4	False	False	False	False	False	False	False	False	False	False	...	False	False
...
9546	False	False	False	False	False	False	False	False	False	False	...	False	False
9547	False	False	False	False	False	False	False	False	False	False	...	False	False
9548	False	False	False	False	False	False	False	False	False	False	...	False	False
9549	False	False	False	False	False	False	False	False	False	False	...	False	False
9550	False	False	False	False	False	False	False	False	False	False	...	False	False

9551 rows × 21 columns

```
In [10]: [features for features in df.columns if df[features].isnull().sum()>0]
```

```
Out[10]: ['Cuisines']
```

```
In [11]: df_country=pd.read_excel(r'C:\Users\Shree\Documents\Learning DA\Python_Amazon_Sales_Analysis-main\Zomatodataset')
```

```
In [12]: df_country.head()
```

Out[12]:

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

```
In [14]: final_df=pd.merge(df,df_country,on='Country Code', how='left')
```

```
In [15]: final_df.head()
```

Out [15]:

	Restaurant ID	Restaurant Name	Country Code	City	Address	Locality	Locality Verbose	Longitude	Latitude	Cuisines	...	T: bool
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	...	

5 rows × 22 columns



```
In [21]: ## to check data types
final_df.dtypes
```

```
Out[21]: 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 [25]: final_df.Country.value_counts()
```

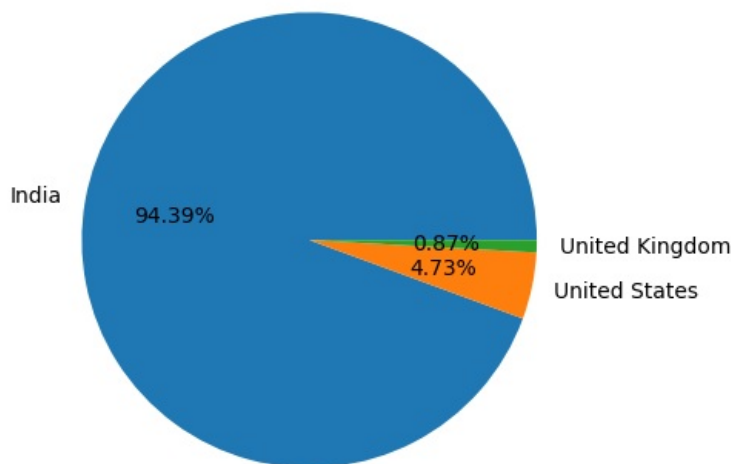
```
Out[25]: Country
India      8652
United States  434
United Kingdom   80
Brazil         60
UAE            60
South Africa    60
New Zealand     40
Turkey          34
Australia       24
Phillipines     22
Indonesia       21
Singapore       20
Qatar           20
Sri Lanka       20
Canada          4
Name: count, dtype: int64
```

```
In [49]: country_names=final_df.Country.value_counts().index
```

```
In [38]: country_val=final_df.Country.value_counts().values
```

```
In [55]: ## pie chart of top 3 countries
plt.pie(country_val[:3],labels=country_names[:3],autopct='%1.2f%%')
```

```
Out[55]: ([<matplotlib.patches.Wedge at 0x1b073349dc0>,
<matplotlib.patches.Wedge at 0x1b072a89df0>,
<matplotlib.patches.Wedge at 0x1b07334a9c0>],
[Text(-1.0829742700952103, 0.19278674827836725, 'India'),
Text(1.077281715838356, -0.22240527134123297, 'United States'),
Text(1.0995865153823035, -0.03015783794312073, 'United Kingdom')],
[Text(-0.590713238233751, 0.10515640815183668, '94.39%'),
Text(0.5876082086391032, -0.12131196618612707, '4.73%'),
Text(0.5997744629358018, -0.01644972978715676, '0.87%')])
```



```
In [51]: country_names=final_df.Country.value_counts().index
```

```
Out[51]: Index(['India', 'United States', 'United Kingdom', 'Brazil', 'UAE',
'South Africa', 'New Zealand', 'Turkey', 'Australia', 'Phillipines',
'Indonesia', 'Singapore', 'Qatar', 'Sri Lanka', 'Canada'],
dtype='object', name='Country')
```

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

```
Out[52]: array([8652, 434, 80, 60, 60, 60, 40, 34, 24, 22, 21,
20, 20, 20, 4], dtype=int64)
```

Obeservation : Zomatos's maximum customer base is in india after that USA and followed by united Kingdom

```
In [57]: final_df.columns
```

```
Out[57]: 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 [60]: final_df.groupby(['Aggregate rating', 'Rating color', 'Rating text']).size().reset_index()
```

Out[60]:

	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	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

```
In [61]: final_df.groupby(['Aggregate rating', 'Rating color', 'Rating text']).size().reset_index().rename(columns={0: 'Ra'
```

Out[61]:

	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

In [62]: rating=final_df.groupby(['Aggregate rating','Rating color', 'Rating text']).size().reset_index().rename(columns:

In [63]: rating

Out[63]:

	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

Observations

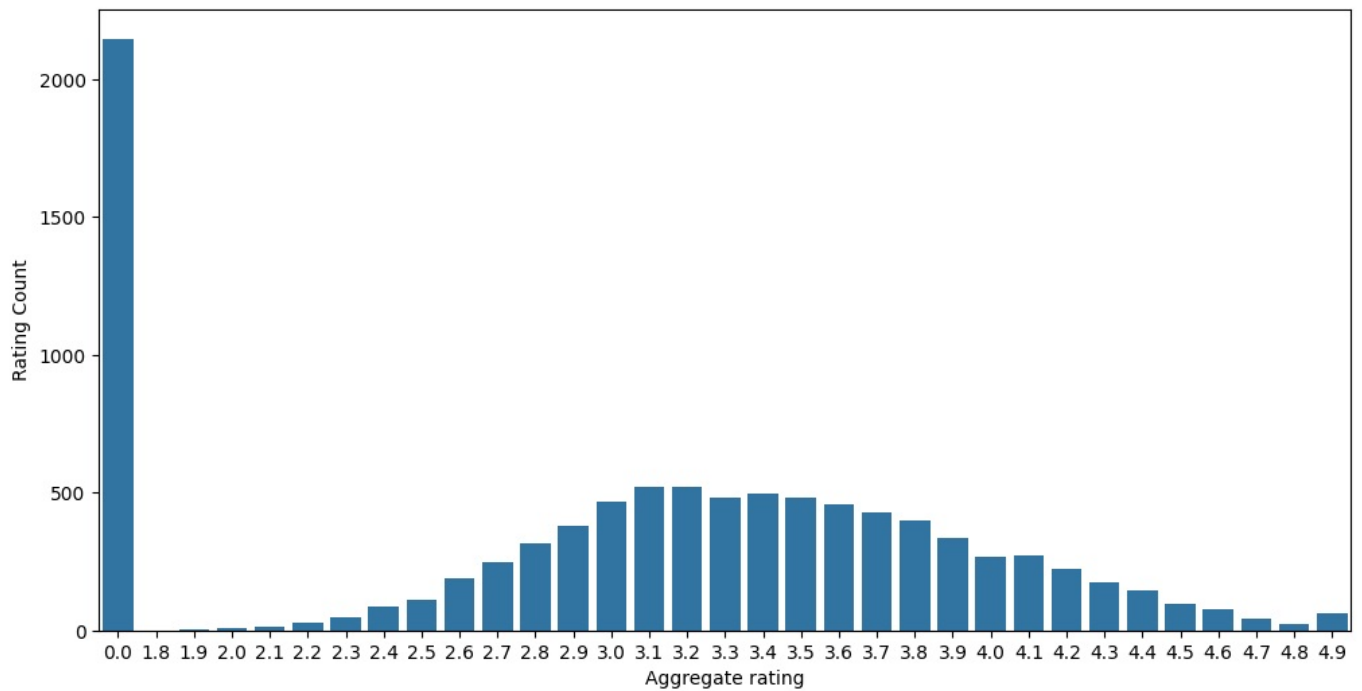
- 1. When ratings are between 4.5 to 4.9 -----> Excellent
- 2. When ratings are between 4 to 4.4 -----> Very Good
- 3. When ratings are between 3.5 to 3.9 -----> Good
- 4. When ratings are between 2.5 to 3.4 -----> Average

In [76]:

```
import matplotlib
matplotlib.rcParams['figure.figsize']=(12,6)
sns.barplot(x='Aggregate rating',y='Rating Count',data=rating,)
```

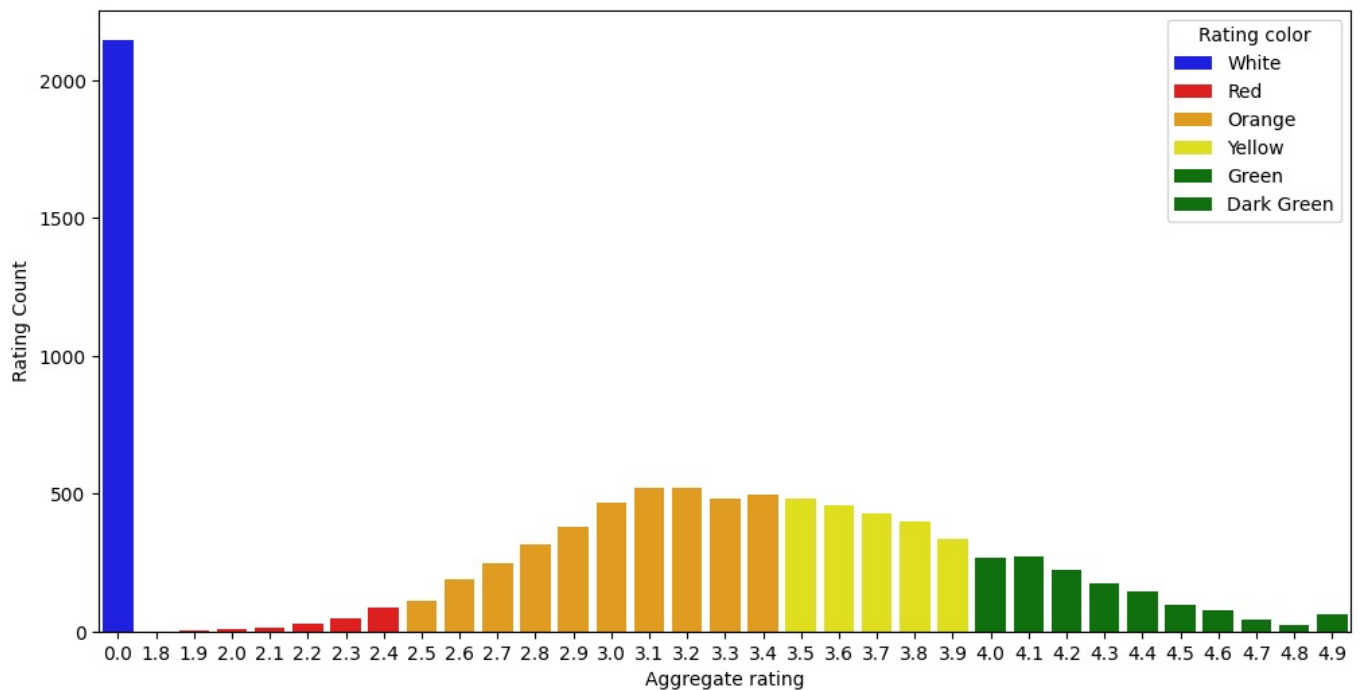
Out[76]:

```
<Axes: xlabel='Aggregate rating', ylabel='Rating Count'>
```

```
In [82]: sns.barplot(x='Aggregate rating',y='Rating Count',data=rating,hue='Rating color',palette=['blue','red','orange'])
```

```
Out[82]: <Axes: xlabel='Aggregate rating', ylabel='Rating Count'>
```

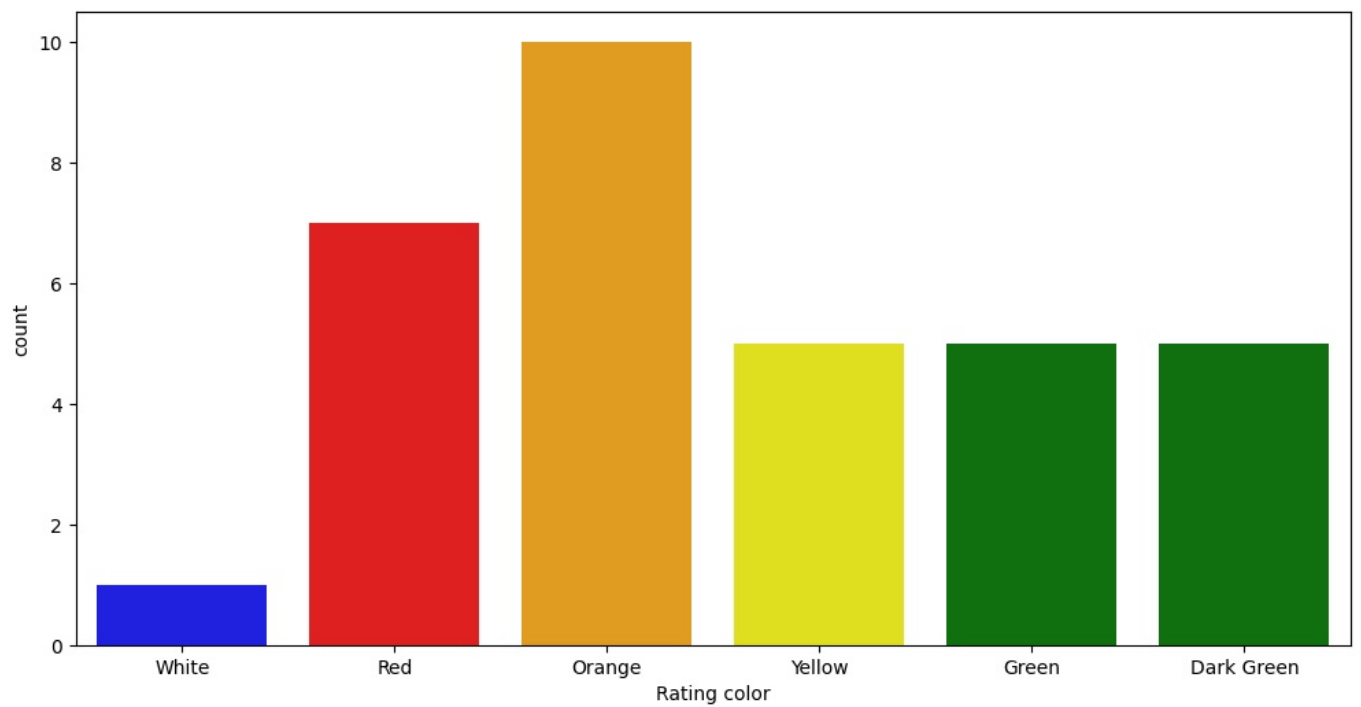


Observation

1. Not rated are in the highest number
2. Maximum rating lie between 2.8 to 3.8

```
In [86]: ## count plot
sns.countplot(x='Rating color',data=rating,hue='Rating color',palette=['blue','red','orange','yellow','green','darkgreen'])
```

```
Out[86]: <Axes: xlabel='Rating color', ylabel='count'>
```



```
In [118.. ## countries name that have given zero rating in desending order

final_df[final_df['Aggregate rating']==0].groupby('Country').size().reset_index().rename(columns={0:'Zero_rating'})
```

```
Out[118..
```

	Country	Zero_rating
3	India	8652
14	United States	434
13	United Kingdom	80
1	Brazil	60
9	South Africa	60
12	UAE	60
5	New Zealand	40
11	Turkey	34
0	Australia	24
6	Phillipines	22
4	Indonesia	21
7	Qatar	20
8	Singapore	20
10	Sri Lanka	20
2	Canada	4

Observation

1. The top 3 countries that have given zero ratings are India, USA, UK
2. The maximum zero rating is coming from india

```
In [119.. ## Which currency is used by which country
```

```
In [121.. final_df.columns
```

```
Out[121.. 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 [126.. final_df.groupby(['Country', 'Currency']).size().reset_index()
```

Out[126...

	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

In [127...

```
## Which countries have online delivery
```

In [134...

```
final_df.head()
```

Out[134...

	Restaurant ID	Restaurant Name	Country Code	City	Address	Locality	Locality Verbose	Longitude	Latitude	Cuisines	...	T: bool
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	...	

5 rows × 22 columns

In [143...

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

Out[143...

```
Country
India    2423
UAE       28
Name: count, dtype: int64
```

In [148...

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

Out[148...

	Country	Has Online delivery	0
0	Australia	No	24
1	Brazil	No	60
2	Canada	No	4
3	India	No	6229
4	India	Yes	2423
5	Indonesia	No	21
6	New Zealand	No	40
7	Phillipines	No	22
8	Qatar	No	20
9	Singapore	No	20
10	South Africa	No	60
11	Sri Lanka	No	20
12	Turkey	No	34
13	UAE	No	32
14	UAE	Yes	28
15	United Kingdom	No	80
16	United States	No	434

Observations

- 1. India and UAE are the only countries which have online delivery

```
In [ ] : ##Create a pie chart for cities didtribution

In [149...] final_df.columns

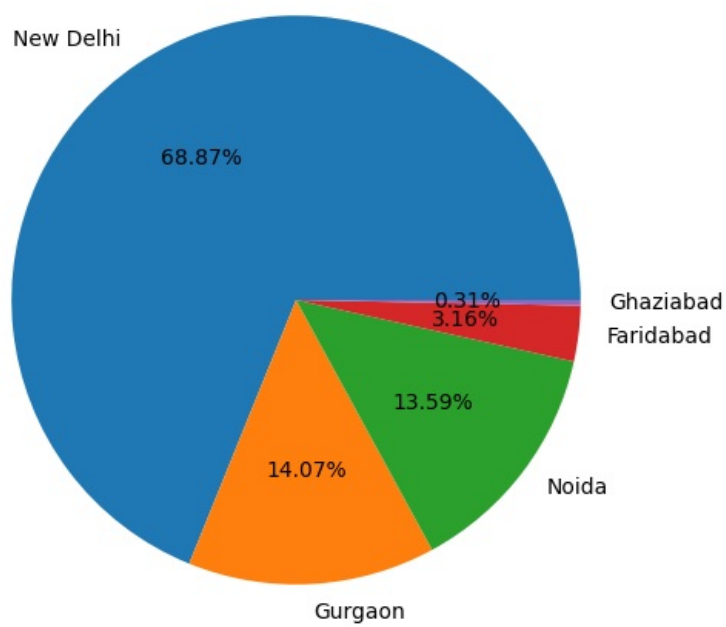
Out[149...] Index(['Restaurant ID', 'Restaurant Name', 'Country Code', 'City', 'Address',
      'Locality', 'Locality Verbose', 'Longitude', 'Latitude', 'Cuisines',
      'Average Cost for two', 'Currency', 'Has Table booking',
      'Has Online delivery', 'Is delivering now', 'Switch to order menu',
      'Price range', 'Aggregate rating', 'Rating color', 'Rating text',
      'Votes', 'Country'],
      dtype='object')

In [155...] cities_names=final_df.City.value_counts().index

In [157...] cities_val=final_df.City.value_counts().values

In [163...] plt.pie(cities_val[:5],labels=cities_names[:5],autopct='%1.2f%%')

Out[163...] ([<matplotlib.patches.Wedge at 0x1b07c47c8c0>,
  <matplotlib.patches.Wedge at 0x1b078a03470>,
  <matplotlib.patches.Wedge at 0x1b07c47cec0>,
  <matplotlib.patches.Wedge at 0x1b07c47d520>,
  <matplotlib.patches.Wedge at 0x1b07c47db20>],
 [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, -0.010871113182029924, '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, -0.005929698099289049, '0.31%')])
```



In []:

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