```
In [23]:
          import pandas as pd
          import numpy as np
          import matplotlib.pyplot as plt
          import seaborn as sns
          %matplotlib inline
 In [2]:
          import seaborn as sns
In [14]:
          import pandas as pd
          df = pd.read csv (r'C:\pandas\data fsds \zomato.csv',encoding='latin-1')
          print (df)
          df.head()
                Restaurant ID
                                        Restaurant Name Country Code
                                                                                     City \
                                       Le Petit Souffle
                                                                             Makati City
         0
                      6317637
                                                                   162
         1
                      6304287
                                       Izakaya Kikufuji
                                                                   162
                                                                             Makati City
                                 Heat - Edsa Shangri-La
                                                                   162
                                                                        Mandaluyong City
         2
                      6300002
                                                                   162
                                                                        Mandaluyong City
         3
                      6318506
                                                    Ooma
         4
                      6314302
                                            Sambo Kojin
                                                                   162
                                                                        Mandaluyong City
                                                                   . . .
                          . . .
                                           NamlÛ± Gurme
                                                                   208
                                                                                ÛÁstanbul
         9546
                      5915730
         9547
                      5908749
                                          Ceviz AÛôacÛ±
                                                                   208
                                                                                ÛÁstanbul
                                                                                ÛÁstanbul
         9548
                      5915807
                                                   Hugga
                                                                   208
                                           A ô ôk Kahve
                                                                               ÛÁstanbul
         9549
                      5916112
                                                                   208
         9550
                      5927402 Walter's Coffee Roastery
                                                                   208
                                                                                ÛÁstanbul
                                                           Address \
                Third Floor, Century City Mall, Kalayaan Avenu...
         0
                Little Tokyo, 2277 Chino Roces Avenue, Legaspi...
         1
         2
                Edsa Shangri-La, 1 Garden Way, Ortigas, Mandal...
                Third Floor, Mega Fashion Hall, SM Megamall, O...
         3
                Third Floor, Mega Atrium, SM Megamall, Ortigas...
         4
               Kemanke ô Karamustafa Pa ôa Mahallesi, RÛ±htÛ±...
         9546
         9547
                Ko ôuyolu Mahallesi, Muhittin ílstí ndaÛô Cadd...
               Kuruí e ôme Mahallesi, Muallim Naci Caddesi, N...
         9548
                Kuruí e ôme Mahallesi, Muallim Naci Caddesi, N...
         9549
         9550
                Cafeaûôa Mahallesi, Bademaltû± Sokak, No 21/B,...
                                                   Locality \
                 Century City Mall, Poblacion, Makati City
         0
         1
                Little Tokyo, Legaspi Village, Makati City
         2
                Edsa Shangri-La, Ortigas, Mandaluyong City
                    SM Megamall, Ortigas, Mandaluyong City
         3
         4
                    SM Megamall, Ortigas, Mandaluyong City
         9546
                                                   Karakí y
         9547
                                                  Ko ôuyolu
                                                Kuruí e ôme
         9548
         9549
                                                Kuruí e ôme
         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
                                       Karakí_y, ÛÁstanbul
9546
                                                               28.977392
9547
                                      Ko ôuyolu, ÛÁstanbul
                                                               29.041297
9548
                                    Kuruí_e ôme, ÛÁstanbul
                                                               29.034640
                                    Kuruí_e ôme, ÛÁstanbul
9549
                                                               29.036019
                                            Moda, ÛÁstanbul
9550
                                                               29.026016
       Latitude
                                             Cuisines
                                                                      Currency
0
      14.565443
                         French, Japanese, Desserts
                                                             Botswana Pula(P)
                                                       . . .
1
      14.553708
                                                             Botswana Pula(P)
                                             Japanese
                                                       . . .
2
      14.581404
                  Seafood, Asian, Filipino, Indian
                                                             Botswana Pula(P)
                                                        . . .
3
      14.585318
                                     Japanese, Sushi
                                                             Botswana Pula(P)
4
      14.584450
                                    Japanese, Korean
                                                             Botswana Pula(P)
                                                       . . .
. . .
             . . .
9546
      41.022793
                                              Turkish
                                                       . . .
                                                             Turkish Lira(TL)
9547
      41.009847
                   World Cuisine, Patisserie, Cafe
                                                             Turkish Lira(TL)
                                                       . . .
                             Italian, World Cuisine
9548
      41.055817
                                                             Turkish Lira(TL)
9549
      41.057979
                                     Restaurant Cafe
                                                             Turkish Lira(TL)
9550
      40.984776
                                                 Cafe
                                                             Turkish Lira(TL)
     Has Table booking Has Online delivery Is delivering now
0
                    Yes
                                            No
                                                               No
1
                    Yes
                                            No
                                                               No
2
                    Yes
                                            No
                                                               No
3
                     No
                                            No
                                                               No
4
                    Yes
                                            No
                                                               No
. . .
                     . . .
                                           . . .
                                                               . . .
9546
                                            No
                     No
                                                               No
9547
                      No
                                            No
                                                               No
9548
                      No
                                            No
                                                               No
9549
                      No
                                            No
                                                               No
9550
                      No
                                            No
                                                               No
     Switch to order menu Price range
                                          Aggregate rating
                                                              Rating color
0
                                       3
                                                         4.8
                                                                Dark Green
                         No
1
                         No
                                       3
                                                         4.5
                                                                Dark Green
2
                                       4
                                                         4.4
                         No
                                                                      Green
3
                                       4
                                                         4.9
                         No
                                                                Dark Green
4
                                       4
                                                         4.8
                                                                Dark Green
                         No
                                                         . . .
                        . . .
                                     . . .
. . .
9546
                                       3
                                                         4.1
                                                                      Green
                         No
                                       3
9547
                         No
                                                         4.2
                                                                      Green
9548
                                       4
                                                         3.7
                                                                     Yellow
                         No
9549
                                       4
                         No
                                                         4.0
                                                                      Green
9550
                         No
                                       2
                                                         4.0
                                                                      Green
     Rating text Votes
       Excellent
0
                    314
       Excellent
1
                    591
2
       Very Good
                    270
3
       Excellent
                    365
4
       Excellent
                    229
                     . . .
9546
       Very Good
                    788
9547
       Very Good
                    1034
9548
```

Good

661

9549 Very Good 901 9550 Very Good 591

[9551 rows x 21 columns]

Out[14]:

	Restaurant ID	Restaurant Name	Country Code	City	Address	Locality	Locality Verbose	Longitude	
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	1
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	1
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	1
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	1
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	1

5 rows × 21 columns

Untitled17 10/8/22, 11:03 PM

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

```
In [10]:
```

```
!pip install pandas-profiling
Requirement already satisfied: pandas-profiling in c:\users\samsaha\anaconda3\lib\site-p
ackages (3.3.0)
Requirement already satisfied: requests<2.29,>=2.24.0 in c:\users\samsaha\anaconda3\lib
\site-packages (from pandas-profiling) (2.26.0)
Requirement already satisfied: jinja2<3.2,>=2.11.1 in c:\users\samsaha\anaconda3\lib\sit
e-packages (from pandas-profiling) (2.11.3)
Requirement already satisfied: missingno<0.6,>=0.4.2 in c:\users\samsaha\anaconda3\lib\s
ite-packages (from pandas-profiling) (0.4.2)
Requirement already satisfied: matplotlib<3.6,>=3.2 in c:\users\samsaha\anaconda3\lib\si
te-packages (from pandas-profiling) (3.4.3)
Requirement already satisfied: PyYAML<6.1,>=5.0.0 in c:\users\samsaha\anaconda3\lib\site
-packages (from pandas-profiling) (6.0)
Requirement already satisfied: tqdm<4.65,>=4.48.2 in c:\users\samsaha\anaconda3\lib\site
-packages (from pandas-profiling) (4.62.3)
Requirement already satisfied: htmlmin==0.1.12 in c:\users\samsaha\anaconda3\lib\site-pa
ckages (from pandas-profiling) (0.1.12)
Requirement already satisfied: pydantic<1.10,>=1.8.1 in c:\users\samsaha\anaconda3\lib\s
ite-packages (from pandas-profiling) (1.9.2)
Requirement already satisfied: tangled-up-in-unicode==0.2.0 in c:\users\samsaha\anaconda
3\lib\site-packages (from pandas-profiling) (0.2.0)
Requirement already satisfied: seaborn<0.12,>=0.10.1 in c:\users\samsaha\anaconda3\lib\s
ite-packages (from pandas-profiling) (0.11.2)
Requirement already satisfied: joblib~=1.1.0 in c:\users\samsaha\anaconda3\lib\site-pack
ages (from pandas-profiling) (1.1.0)
Requirement already satisfied: multimethod<1.9,>=1.4 in c:\users\samsaha\anaconda3\lib\s
ite-packages (from pandas-profiling) (1.8)
Requirement already satisfied: statsmodels<0.14,>=0.13.2 in c:\users\samsaha\anaconda3\l
ib\site-packages (from pandas-profiling) (0.13.2)
Requirement already satisfied: numpy<1.24,>=1.16.0 in c:\users\samsaha\anaconda3\lib\sit
e-packages (from pandas-profiling) (1.20.3)
Requirement already satisfied: visions[type image path] == 0.7.5 in c:\users\samsaha\anaco
```

nda3\lib\site-packages (from pandas-profiling) (0.7.5)

Requirement already satisfied: pandas!=1.4.0,<1.5,>1.1 in c:\users\samsaha\anaconda3\lib \site-packages (from pandas-profiling) (1.3.4)

Requirement already satisfied: phik<0.13,>=0.11.1 in c:\users\samsaha\anaconda3\lib\site -packages (from pandas-profiling) (0.12.2)

Requirement already satisfied: scipy<1.10,>=1.4.1 in c:\users\samsaha\anaconda3\lib\site -packages (from pandas-profiling) (1.7.1)

Requirement already satisfied: networkx>=2.4 in c:\users\samsaha\anaconda3\lib\site-pack ages (from visions[type image path]==0.7.5->pandas-profiling) (2.6.3)

Requirement already satisfied: attrs>=19.3.0 in c:\users\samsaha\anaconda3\lib\site-pack ages (from visions[type\_image\_path]==0.7.5->pandas-profiling) (21.2.0)

Requirement already satisfied: Pillow in c:\users\samsaha\anaconda3\lib\site-packages (f rom visions[type image path]==0.7.5->pandas-profiling) (8.4.0)

Requirement already satisfied: imagehash in c:\users\samsaha\anaconda3\lib\site-packages (from visions[type image path]==0.7.5->pandas-profiling) (4.3.1)

Requirement already satisfied: MarkupSafe>=0.23 in c:\users\samsaha\anaconda3\lib\site-p ackages (from jinja2<3.2,>=2.11.1->pandas-profiling) (1.1.1)

Requirement already satisfied: python-dateutil>=2.7 in c:\users\samsaha\anaconda3\lib\si te-packages (from matplotlib<3.6,>=3.2->pandas-profiling) (2.8.2)

Requirement already satisfied: cycler>=0.10 in c:\users\samsaha\anaconda3\lib\site-packa ges (from matplotlib<3.6,>=3.2->pandas-profiling) (0.10.0)

Requirement already satisfied: kiwisolver>=1.0.1 in c:\users\samsaha\anaconda3\lib\sitepackages (from matplotlib<3.6,>=3.2->pandas-profiling) (1.3.1)

```
ackages (from matplotlib<3.6,>=3.2->pandas-profiling) (3.0.4)
         Requirement already satisfied: six in c:\users\samsaha\anaconda3\lib\site-packages (from
         cycler>=0.10->matplotlib<3.6,>=3.2->pandas-profiling) (1.16.0)
         Requirement already satisfied: pytz>=2017.3 in c:\users\samsaha\anaconda3\lib\site-packa
         ges (from pandas!=1.4.0,<1.5,>1.1->pandas-profiling) (2021.3)
         Requirement already satisfied: typing-extensions>=3.7.4.3 in c:\users\samsaha\anaconda3
         \lib\site-packages (from pydantic<1.10,>=1.8.1->pandas-profiling) (3.10.0.2)
         Requirement already satisfied: idna<4,>=2.5 in c:\users\samsaha\anaconda3\lib\site-packa
         ges (from requests<2.29,>=2.24.0->pandas-profiling) (3.2)
         Requirement already satisfied: charset-normalizer~=2.0.0 in c:\users\samsaha\anaconda3\l
         ib\site-packages (from requests<2.29,>=2.24.0->pandas-profiling) (2.0.4)
         Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\users\samsaha\anaconda3\lib\s
         ite-packages (from requests<2.29,>=2.24.0->pandas-profiling) (1.26.7)
         Requirement already satisfied: certifi>=2017.4.17 in c:\users\samsaha\anaconda3\lib\site
         -packages (from requests<2.29,>=2.24.0->pandas-profiling) (2021.10.8)
         Requirement already satisfied: packaging>=21.3 in c:\users\samsaha\anaconda3\lib\site-pa
         ckages (from statsmodels<0.14,>=0.13.2->pandas-profiling) (21.3)
         Requirement already satisfied: patsy>=0.5.2 in c:\users\samsaha\anaconda3\lib\site-packa
         ges (from statsmodels<0.14,>=0.13.2->pandas-profiling) (0.5.2)
         Requirement already satisfied: colorama in c:\users\samsaha\anaconda3\lib\site-packages
         (from tqdm<4.65,>=4.48.2->pandas-profiling) (0.4.4)
         Requirement already satisfied: PyWavelets in c:\users\samsaha\anaconda3\lib\site-package
         s (from imagehash->visions[type image path]==0.7.5->pandas-profiling) (1.1.1)
In [11]:
          from pandas profiling import ProfileReport
          profile=ProfileReport(df1,explorative=True)
          profile.to file("Output.html")
         ImportError
                                                   Traceback (most recent call last)
         ~\AppData\Local\Temp/ipykernel_9792/766080692.py in <module>
         ---> 1 from pandas profiling import ProfileReport
               2 profile=ProfileReport(df1,explorative=True)
               3 profile.to_file("Output.html")
         ~\Anaconda3\lib\site-packages\pandas_profiling\_init_.py in <module>
               4 """
               5
         ---> 6 from pandas profiling.controller import pandas decorator
               7 from pandas profiling.profile report import ProfileReport
               8 from pandas profiling.version import version
         ~\Anaconda3\lib\site-packages\pandas profiling\controller\pandas decorator.py in <module
               2 from pandas import DataFrame
         ----> 4 from pandas profiling.profile report import ProfileReport
               5
               6
         ~\Anaconda3\lib\site-packages\pandas_profiling\profile_report.py in <module>
              14 from pandas profiling.expectations report import ExpectationsReport
              15 from pandas_profiling.model.alerts import AlertType
         ---> 16 from pandas profiling.model.describe import describe as describe df
              17 from pandas profiling.model.sample import Sample
              18 from pandas profiling.model.summarizer import (
         ~\Anaconda3\lib\site-packages\pandas_profiling\model\describe.py in <module>
```

Requirement already satisfied: pyparsing>=2.2.1 in c:\users\samsaha\anaconda3\lib\site-p

```
16 from pandas profiling.model.duplicates import get duplicates
              17 from pandas profiling.model.missing import get missing active, get missing diag
         ram
          ---> 18 from pandas_profiling.model.pairwise import get_scatter_plot, get_scatter_tasks
               19 from pandas profiling.model.sample import get custom sample, get sample
               20 from pandas profiling.model.summarizer import BaseSummarizer
         ~\Anaconda3\lib\site-packages\pandas_profiling\model\pairwise.py in <module>
               4
                5 from pandas profiling.config import Settings
          ----> 6 from pandas profiling.visualisation.plot import scatter pairwise
                7
                8
         ~\Anaconda3\lib\site-packages\pandas_profiling\visualisation\plot.py in <module>
               11 from matplotlib.patches import Patch
              12 from matplotlib.ticker import FuncFormatter
          ---> 13 from statsmodels.graphics.tsaplots import plot_acf, plot_pacf
               14
              15 from pandas profiling.config import Settings
         ~\Anaconda3\lib\site-packages\statsmodels\graphics\tsaplots.py in <module>
               9
              10 from statsmodels.graphics import utils
          ---> 11 from statsmodels.tsa.stattools import acf, pacf
              12
              13
         ~\Anaconda3\lib\site-packages\statsmodels\tsa\stattools.py in <module>
                6 from statsmodels.compat.numpy import lstsq
                7 from statsmodels.compat.pandas import deprecate kwarg
          ----> 8 from statsmodels.compat.python import lzip, Literal
                9 from statsmodels.compat.scipy import next regular
              10
         ImportError: cannot import name 'Literal' from 'statsmodels.compat.python' (C:\Users\sam
         saha\Anaconda3\lib\site-packages\statsmodels\compat\python.py)
In [16]:
          df country=pd.read excel('Country-Code.xlsx')
          df_country.head()
Out[16]:
            Country Code
                          Country
         0
                      1
                             India
          1
                      14
                          Australia
          2
                     30
                            Brazil
          3
                     37
                           Canada
                     94 Indonesia
In [17]:
          final df=pd.merge(df,df country,on='Country Code', how='left')
In [18]:
          final df.head(2)
```

Restaurant

ID

**Restaurant Country** 

Code

Name

City

**Address** 

Third

Floor,

Locality

Out[18]:

```
Century
                                                                           City Mall,
                                                       Century
                                                                                                             Fr
                                                                City Mall,
                             Le Petit
                                                                          Poblacion,
                                              Makati
                                                                Poblacion,
           0
                6317637
                                         162
                                                          City
                                                                                     121.027535 14.565443
                                                                                                           Japa
                             Souffle
                                                 City
                                                                             Makati
                                                          Mall,
                                                                  Makati
                                                                                                            Des
                                                                               City,
                                                      Kalayaan
                                                                     City
                                                                              Mak...
                                                       Avenu...
                                                         Little
                                                                    Little
                                                                               Little
                                                        Tokyo,
                                                                   Tokyo,
                                                                              Tokyo,
                                                         2277
                                              Makati
                                                                  Legaspi
                                                                             Legaspi
                             Izakaya
           1
                6304287
                                                                                     121.014101 14.553708
                                         162
                                                         Chino
                             Kikufuji
                                                                             Village,
                                                 City
                                                                  Village,
                                                         Roces
                                                                  Makati
                                                                             Makati
                                                       Avenue,
                                                                     City
                                                                           City, Ma...
                                                      Legaspi...
          2 rows × 22 columns
In [19]:
           final_df.Country.value_counts()
           India
                               8652
Out[19]:
          United States
                                434
          United Kingdom
                                 80
          Brazil
                                 60
          UAE
                                 60
          South Africa
                                 60
          New Zealand
                                 40
                                 34
          Turkey
          Australia
                                 24
          Phillipines
                                 22
          Indonesia
                                 21
          Singapore
                                 20
          Qatar
                                 20
                                 20
          Sri Lanka
           Canada
          Name: Country, dtype: int64
In [25]:
            country names=final df.Country.value counts().index
In [26]:
            country_val=final_df.Country.value_counts().values
In [33]:
            ## Pie Chart- Top 3 countries that uses zomato
           plt.pie(country_val[:3],labels=country_names[:3],autopct='%1.2f%%')
           ([<matplotlib.patches.Wedge at 0x16e389381f0>,
Out[33]:
             <matplotlib.patches.Wedge at 0x16e38938970>,
             <matplotlib.patches.Wedge at 0x16e389450d0>],
            [Text(-1.0829742700952103, 0.19278674827836725, 'India'),
```

Locality

Verbose

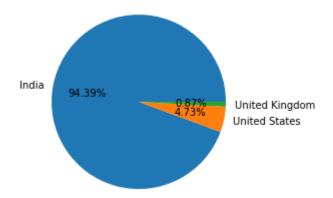
Century

Longitude

Latitude

Cui

```
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%')])
```



## Observation: Maximium sales from top three countries: India, US and UK

```
In [36]: ratings=final_df.groupby(['Aggregate rating','Rating color','Rating text']).size().rese
In [37]: ratings
```

	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

Out[37]:

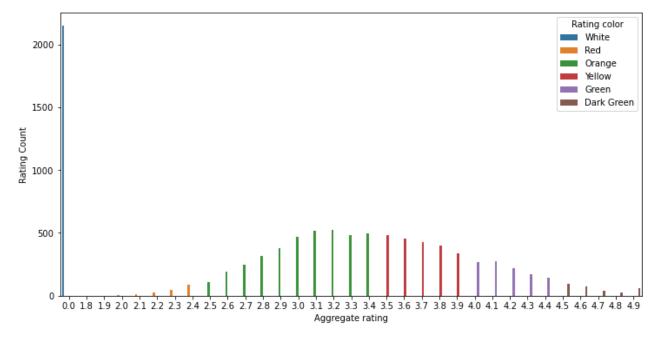
	Aggregate rating	Rating color	Rating text	Rating Count
15	3.2	Orange	Average	522
16	3.3	Orange	Average	483
17	3.4	Orange	Average	498
18	3.5	Yellow	Good	480
19	3.6	Yellow	Good	458
20	3.7	Yellow	Good	427
21	3.8	Yellow	Good	400
22	3.9	Yellow	Good	335
23	4.0	Green	Very Good	266
24	4.1	Green	Very Good	274
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

```
import matplotlib
    matplotlib.rcParams['figure.figsize'] = (12, 6)

sns.barplot(x='Aggregate rating',y='Rating Count',hue='Rating color',data=ratings)

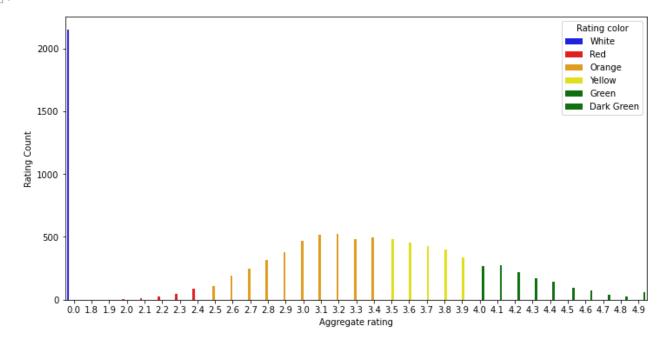
Out[43]:

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



In [46]: sns.barplot(x="Aggregate rating",y="Rating Count",hue='Rating color',data=ratings,palet #since white cannot be seen

Out[46]: <AxesSubplot:xlabel='Aggregate rating', ylabel='Rating Count'>

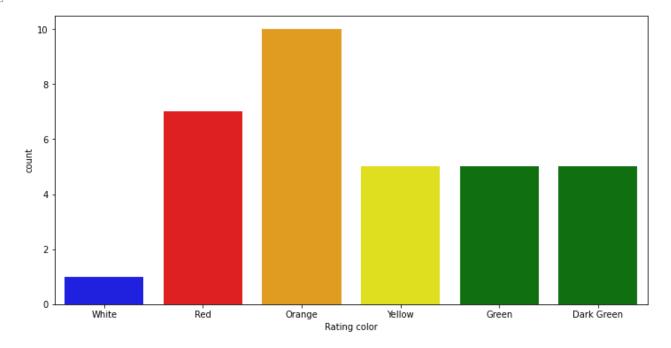


In [61]: final\_df.groupby(['Aggregate rating','Country']).size().reset\_index().head(4)

Out[61]:		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

```
## Count plot
sns.countplot(x="Rating color",data=ratings,palette=['blue','red','orange','yellow','gr
```

Out[62]: <AxesSubplot:xlabel='Rating color', ylabel='count'>



In [63]: final\_df[['Has Online delivery','Country']].groupby(['Has Online delivery','Country']).

Out[63]:	Has Online delivery	Country	0
	) No	Australia	24
	<b>I</b> No	Brazil	60
;	2 No	Canada	4
:	3 No	India	6229
	1 No	Indonesia	21
!	5 No	New Zealand	40
(	5 No	Phillipines	22
•	7 No	Qatar	20
:	3 No	Singapore	20
!	<b>N</b> o	South Africa	60
10	) No	Sri Lanka	20
1	<b>I</b> No	Turkey	34
12	2 No	UAE	32
13	3 No	United Kingdom	80
14	1 No	United States	434
1:	<b>5</b> Yes	India	2423

	Has Online delivery	Country	0
16	Yes	UAE	28

Observations:

Online Deliveries are available in India and UAE

```
In [65]:
           final_df.columns
          Index(['Restaurant ID', 'Restaurant Name', 'Country Code', 'City', 'Address',
Out[65]:
                  '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 [68]:
           #Find the top 10 cuisines
           final_df.groupby(['Cuisines']).size().reset_index().head(10)
                                       Cuisines
                                                 0
Out[68]:
                                        Afghani
          0
          1
                         Afghani, Mughlai, Chinese
          2
                             Afghani, North Indian
          3
             Afghani, North Indian, Pakistani, Arabian
          4
                                         African
                                                 1
                              African, Portuguese
          5
          6
                                       American 31
          7
                           American, Asian, Burger
          8
                 American, Asian, European, Seafood
                    American, Asian, Italian, Seafood
          9
 In [ ]:
```