In [1]:
```
import pandas as pd
import matplotlib
import matplotlib.pyplot as plt
import numpy as np
import seaborn as sns
%matplotlib inline
from matplotlib import style
```

To load the zomato dataset from the csv format, from your device - copy the path and paste it here.

In [2]:
```
zomato = pd.read_csv("C://Users//kolli Mallikarjuna//vaishnavi//datasets//zomato//zoma
zomato
```

Out[2]:

	Restaurant ID	Restaurant Name	Country Code	City	Address	Locality	Locality Verbose	Long
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...	121.02
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...	121.01
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...	121.05
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...	121.05
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...	121.05
...	...	...	...	...	...	...	...	
9546	5915730	NamlÛ± Gurme	208	ÛÁstanbul	Kemanke□ô Karamustafa Pa□ôa Mahallesi, RÛ±htÛ±...	Karakí_y	Karakí_y, ÛÁstanbul	28.97
9547	5908749	Ceviz AÛôacÛ±	208	ÛÁstanbul	Ko□ôuyolu Mahallesi, Muhittin îstí_ndaÛô Cadd...	Ko□ôuyolu	Ko□ôuyolu, ÛÁstanbul	29.04
9548	5915807	Huqqa	208	ÛÁstanbul	Kuruí_e□ôme Mahallesi, Muallim Naci Caddesi, N...	Kuruí_e□ôme	Kuruí_e□ôme, ÛÁstanbul	29.03
9549	5916112	A□ô□ôk Kahve	208	ÛÁstanbul	Kuruí_e□ôme Mahallesi, Muallim Naci Caddesi, N...	Kuruí_e□ôme	Kuruí_e□ôme, ÛÁstanbul	29.03
9550	5927402	Walter's Coffee	208	ÛÁstanbul	CafeaÛôa Mahallesi,	Moda	Moda, ÛÁstanbul	29.02

Restaurant ID	Restaurant Name	Country Code	City	Address	Locality	Locality Verbose	Long
	Roastery			BademaltÛ± Sokak, No 21/B,...			

To see the basic info of the dataset

In [3]:
```
zomato.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
```

To see the statistical info of the dataset

In [4]:
```
zomato.describe()
```

Out[4]:

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

To see all the columns present in the dataset in the index form

In [5]:
```
zomato.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')
```

To get the list of columns of the dataset

In [6]:
```
list(zomato.columns)
```

Out[6]:
```
['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']
```

To see if there are any null values in the dataset

In [7]:
```
zomato.isna().sum()
```

Out[7]:
```
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 [13]:
```
[A for A in zomato.columns if zomato[A].isna().sum()>0]
```

Out[13]:
```
['Cuisines']
```

To see the shape of the dataset

In [12]:
```
zomato.shape
```

Out[12]:
```
(9551, 21)
```

We can load another data set and join it to the existing dataset

In [16]:
```
zomato_ctry = pd.read_excel("C://Users//kolli Mallikarjuna//vaishnavi//datasets//zomat
zomato_ctry
```

Out[16]:

	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

In [18]:

```
zomato_new = pd.merge(zomato,zomato_ctry, on = 'Country Code', how = 'left')
zomato_new
```

Out[18]:

	Restaurant ID	Restaurant Name	Country Code	City	Address	Locality	Locality Verbose	Long
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...	121.02
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...	121.01
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...	121.05
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...	121.05
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...	121.05
...	...	...	...	...	...	...	...	
9546	5915730	NamlÛ± Gurme	208	ÛÁstanbul	Kemanke□ô Karamustafa Pa□ôa Mahallesi, RÛ±htÛ±...	Karakí_y	Karakí_y, ÛÁstanbul	28.97
9547	5908749	Ceviz AÛôacÛ±	208	ÛÁstanbul	Ko□ôuyolu Mahallesi, Muhittin îstí_ndaÛô Cadd...	Ko□ôuyolu	Ko□ôuyolu, ÛÁstanbul	29.04
9548	5915807	Huqqa	208	ÛÁstanbul	Kuruí_e□ôme Mahallesi, Muallim Naci Caddesi, N...	Kuruí_e□ôme	Kuruí_e□ôme, ÛÁstanbul	29.03
9549	5916112	A□ô□ôk Kahve	208	ÛÁstanbul	Kuruí_e□ôme Mahallesi, Muallim Naci Caddesi, N...	Kuruí_e□ôme	Kuruí_e□ôme, ÛÁstanbul	29.03
9550	5927402	Walter's Coffee	208	ÛÁstanbul	CafeaÛôa Mahallesi,	Moda	Moda, ÛÁstanbul	29.02

Restaurant ID	Restaurant Name	Country Code	City	Address	Locality	Locality Verbose	Long
	Roastery			BademaltÛ± Sokak, No 21/B,...			

In [19]:
```
zomato_new.shape
```

Out[19]:
```
(9551, 22)
```

In [20]:
```
zomato_new.columns
```

Out[20]:
```
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 [23]:
```
zomato_new.Country.value_counts()
```

Out[23]:
```
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 [27]:
```
ctry= zomato_new.Country.value_counts().index
ctry
```

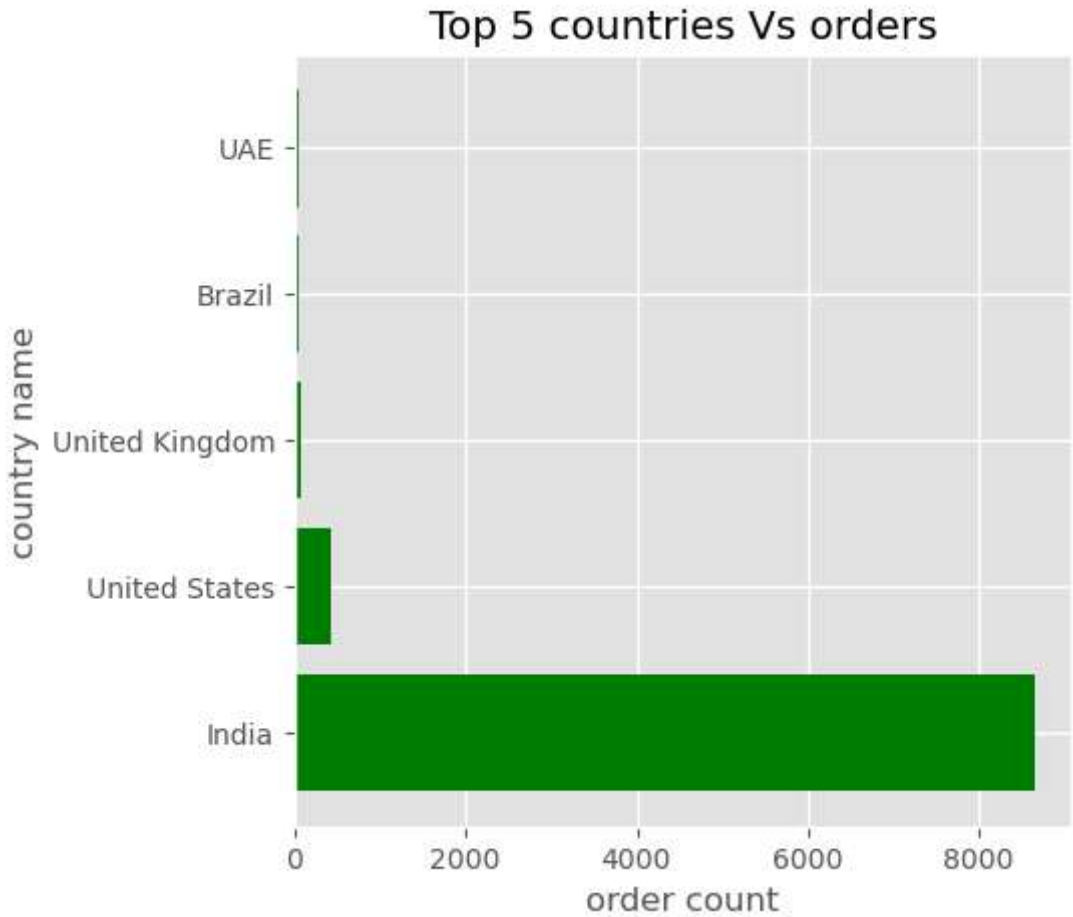
Out[27]:
```
Index(['India', 'United States', 'United Kingdom', 'Brazil', 'UAE',
       'South Africa', 'New Zealand', 'Turkey', 'Australia', 'Phillipines',
       'Indonesia', 'Singapore', 'Qatar', 'Sri Lanka', 'Canada'],
      dtype='object', name='Country')
```

In [28]:
```
orders = zomato_new.Country.value_counts().values
orders
```

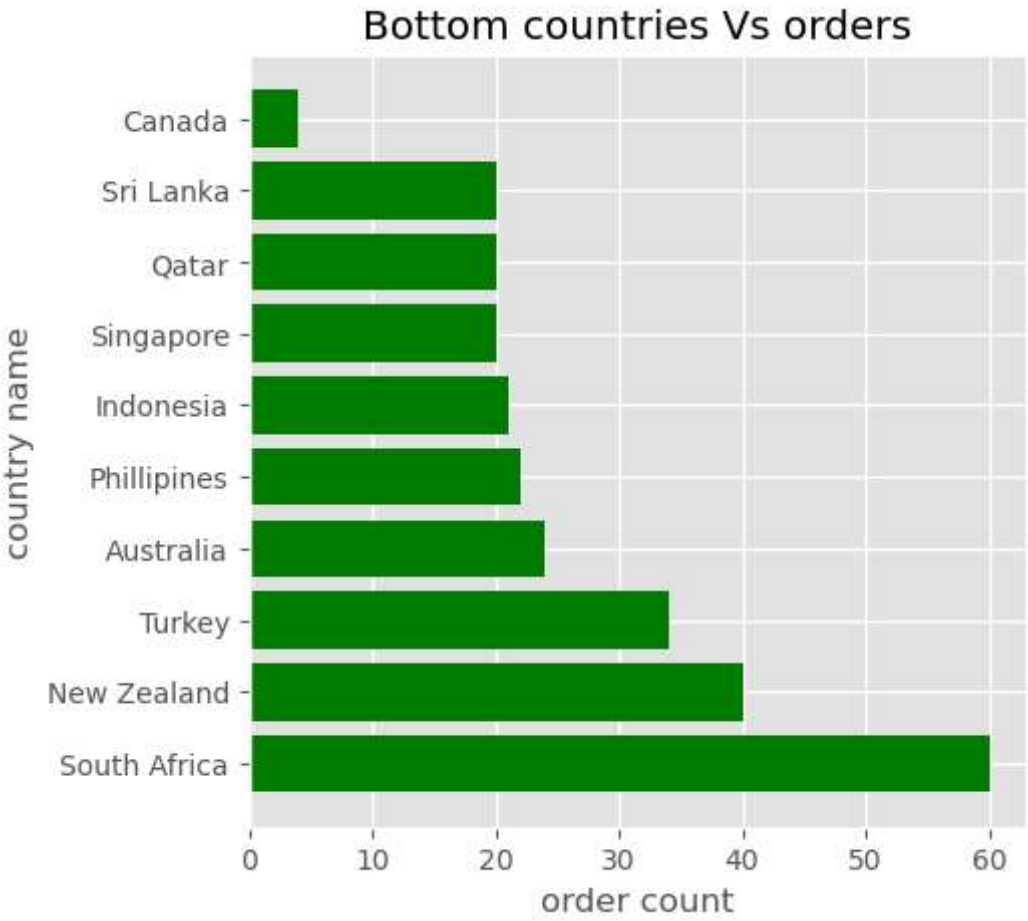
Out[28]:
```
array([8652,  434,   80,   60,   60,   60,   40,   34,   24,   22,   21,
         20,   20,   20,    4], dtype=int64)
```

That means we can see that no.of orders or transactions happened in the respective country.

In [35]:
```
style.use('ggplot')
plt.figure(figsize=(5,5))
plt.barh(ctry[:5],orders[:5],align = 'center',color = 'green');
plt.ylabel('country name')
plt.xlabel('order count')
plt.title('Top 5 countries Vs orders');
```



In [34]:
```
plt.figure(figsize=(5,5))
plt.barh(ctry[5:],orders[5:],align = 'center', color = 'green');
plt.ylabel('country name')
plt.xlabel('order count')
plt.title('Bottom countries Vs orders');
```

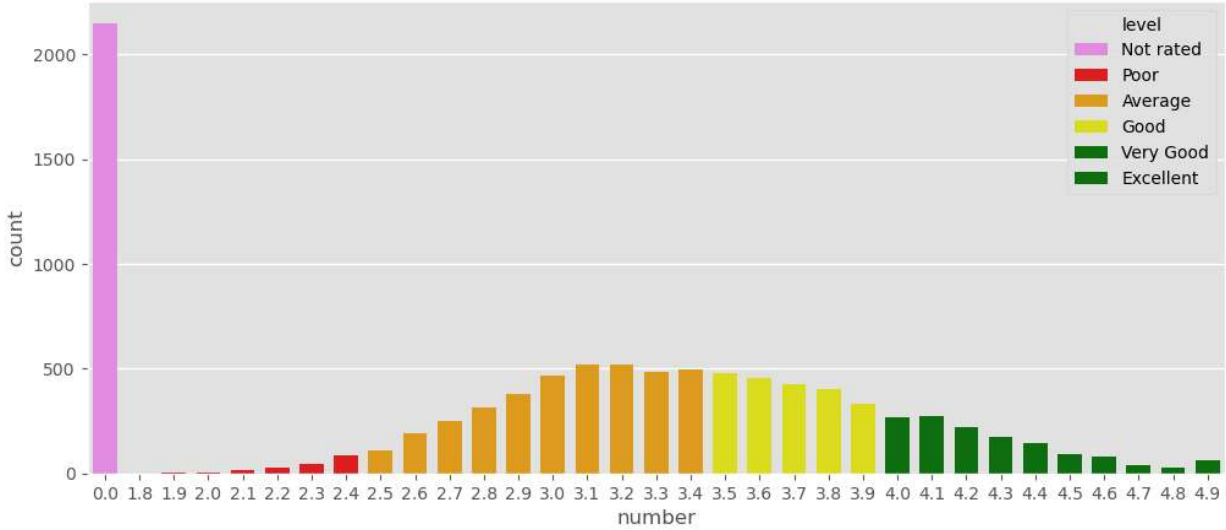


In [38]:
```
Rating = zomato_new.groupby(['Aggregate rating','Rating color', 'Rating text']).size()
Rating
```

Out[38]:

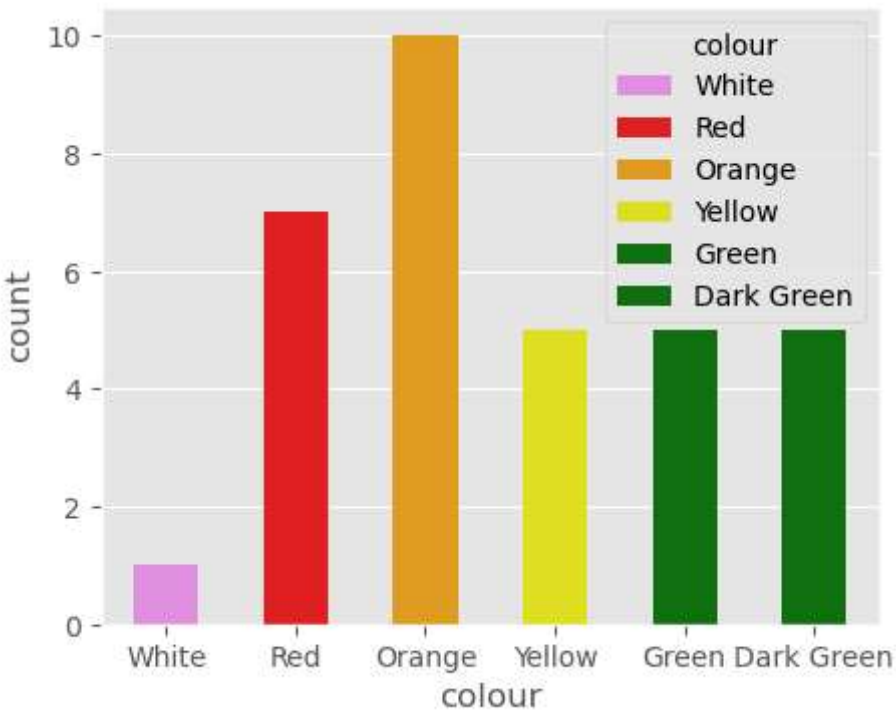
	number	colour	level	count
0	0.0	White	Not rated	2148
1	1.8	Red	Poor	1
2	1.9	Red	Poor	2
3	2.0	Red	Poor	7
4	2.1	Red	Poor	15
5	2.2	Red	Poor	27
6	2.3	Red	Poor	47
7	2.4	Red	Poor	87
8	2.5	Orange	Average	110
9	2.6	Orange	Average	191
10	2.7	Orange	Average	250
11	2.8	Orange	Average	315
12	2.9	Orange	Average	381
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 [55]:
```
matplotlib.rcParams['figure.figsize'] = (12,5)
sns.barplot(x='number',y='count',data = Rating, hue = 'level', palette = ['violet','re
```



Not rated count is ver high and then maximum no.of ratings are available between 2.5 and 3.4., and then 3.5 and 3.9., and then 4.0 to 4.4

In [54]:
```
matplotlib.rcParams['figure.figsize']=(5,4)
sns.countplot(x= 'colour', data = Rating, hue = 'colour', palette = ['violet','red','c
```



White has the Lowest count of rating, orange has highest count of ratings, followed by red., yellow, green and dark green shows the count of ratings are same.

In [56]:
```
countries = zomato_new.groupby(['Aggregate rating','Country']).size().reset_index().re
countries
```

Out[56]:

	Aggregate rating	Country	zeroratecount
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
...	...	...	...
217	4.9	Sri Lanka	1
218	4.9	Turkey	3
219	4.9	UAE	4
220	4.9	United Kingdom	4
221	4.9	United States	14

222 rows × 3 columns

In [59]:

```
zero_rated_ctries = countries[countries['Aggregate rating']==0]
zero_rated_ctries
```

Out[59]:

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

Maximun zero ratings are given from the country 'India'.

In [66]:

```
zomato_new.columns
```

Out[66]:

```
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 [67]:

```
currency = zomato_new.groupby(['Currency','Country']).size().reset_index()
currency
```

Out[67]:

	Currency	Country	0
0	Botswana Pula(P)	Phillipines	22
1	Brazilian Real(R$)	Brazil	60
2	Dollar($)	Australia	24
3	Dollar($)	Canada	4
4	Dollar($)	Singapore	20
5	Dollar($)	United States	434
6	Emirati Diram(AED)	UAE	60
7	Indian Rupees(Rs.)	India	8652
8	Indonesian Rupiah(IDR)	Indonesia	21
9	NewZealand($)	New Zealand	40
10	Pounds(□£)	United Kingdom	80
11	Qatari Rial(QR)	Qatar	20
12	Rand(R)	South Africa	60
13	Sri Lankan Rupee(LKR)	Sri Lanka	20
14	Turkish Lira(TL)	Turkey	34

In [68]:
```
zomato_new[zomato_new['Has Online delivery']=='Yes'].groupby(['Country','Has Online de
```

Out[68]:

	Country	Has Online delivery	0
0	India	Yes	2423
1	UAE	Yes	28

we can see only countries which have nonline delivery option

In [69]:
```
city = zomato_new.City.value_counts()
city
```

Out[69]:
```
City
New Delhi           5473
Gurgaon             1118
Noida               1080
Faridabad            251
Ghaziabad             25
                    ...
Panchkula              1
Mc Millan              1
Mayfield               1
Macedon                1
Vineland Station       1
Name: count, Length: 141, dtype: int64
```

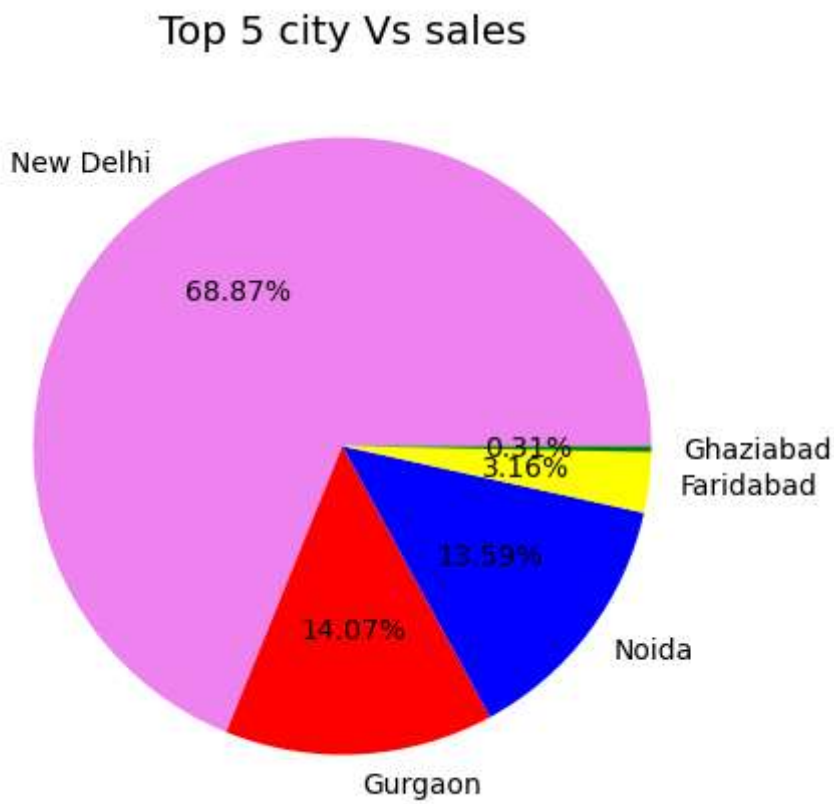
In [71]:
```
city_names = zomato_new.City.value_counts().index
city_names
```

Out[71]:
```
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', name='City', length=141)
```

In [73]:
```
city_orders = zomato_new.City.value_counts().values
city_orders
```

Out[73]:
```
array([5473, 1118, 1080,  251,   25,   21,   21,   21,   21,   21,   20,
         20,   20,   20,   20,   20,   20,   20,   20,   20,   20,   20,
         20,   20,   20,   20,   20,   20,   20,   20,   20,   20,   20,
         20,   20,   20,   20,   20,   20,   20,   20,   20,   20,   20,
         20,   20,   20,   20,   20,   20,   20,   20,   20,   20,   20,
         20,   20,   20,   20,   20,   20,   20,   20,   20,   20,   20,
         20,   20,   20,   20,   20,   20,   20,   20,   20,   20,   20,
         18,   18,   16,   14,   11,    6,    4,    4,    3,    3,    2,
          2,    2,    2,    2,    2,    2,    2,    1,    1,    1,    1,
          1,    1,    1,    1,    1,    1,    1,    1,    1,    1,    1,
          1,    1,    1,    1,    1,    1,    1,    1,    1,    1,    1,
          1,    1,    1,    1,    1,    1,    1,    1,    1,    1,    1,
          1,    1,    1,    1,    1,    1,    1,    1,    1], dtype=int64)
```

In [77]:
```
plt.pie(city_orders[:5],labels = city_names[:5], autopct = '%1.2f%%', colors = ['viole
plt.title('Top 5 city Vs sales');
```



Top 5 cities with sales are New delhi, Gurgaon, Noida, Faridabad, Ghaziabad

In [78]:
```
Top10cuisines = zomato_new[zomato_new['Rating text']=='Excellent'].groupby(['Votes','R
Top10cuisines
```

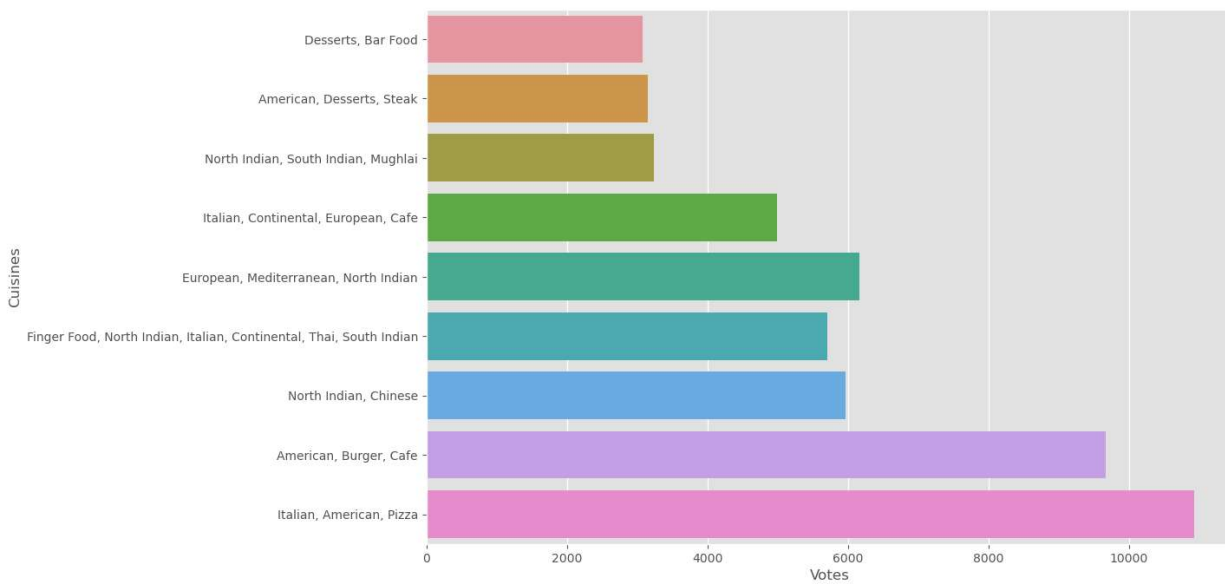
Out[78]:

	Votes	Rating text	Cuisines	0
290	3074	Excellent	Desserts, Bar Food	1
291	3157	Excellent	American, Desserts, Steak	1
292	3244	Excellent	North Indian, South Indian, Mughlai	1
293	4986	Excellent	Italian, Continental, European, Cafe	1
294	5434	Excellent	European, Mediterranean, North Indian	1
295	5705	Excellent	Finger Food, North Indian, Italian, Continenta...	1
296	5966	Excellent	North Indian, Chinese	1
297	6907	Excellent	European, Mediterranean, North Indian	1
298	9667	Excellent	American, Burger, Cafe	1
299	10934	Excellent	Italian, American, Pizza	1

These are the top 10 cuisines with highest number of votes and getting high bar rating.

In [88]:

```
matplotlib.rcParams['figure.figsize']=(12,8)
sns.barplot(x='Votes',y='Cuisines',data = Top10cuisines, errwidth = 0);
```



In [100…

```
avg_costof2 = zomato_new[zomato_new['Average Cost for two']<=2000].groupby(['Votes','R
avg_costof2
```

Out[100]:

	Votes	Rating text	Country	0
0	0	Not rated	Brazil	1
1	0	Not rated	India	1091
2	1	Not rated	Brazil	1
3	1	Not rated	India	480
4	1	Not rated	United States	1
...	...	...	...	...
2309	6907	Excellent	India	1
2310	7574	Very Good	India	1
2311	7931	Very Good	India	1
2312	9667	Excellent	India	1
2313	10934	Excellent	India	1

2314 rows × 4 columns

In [105…

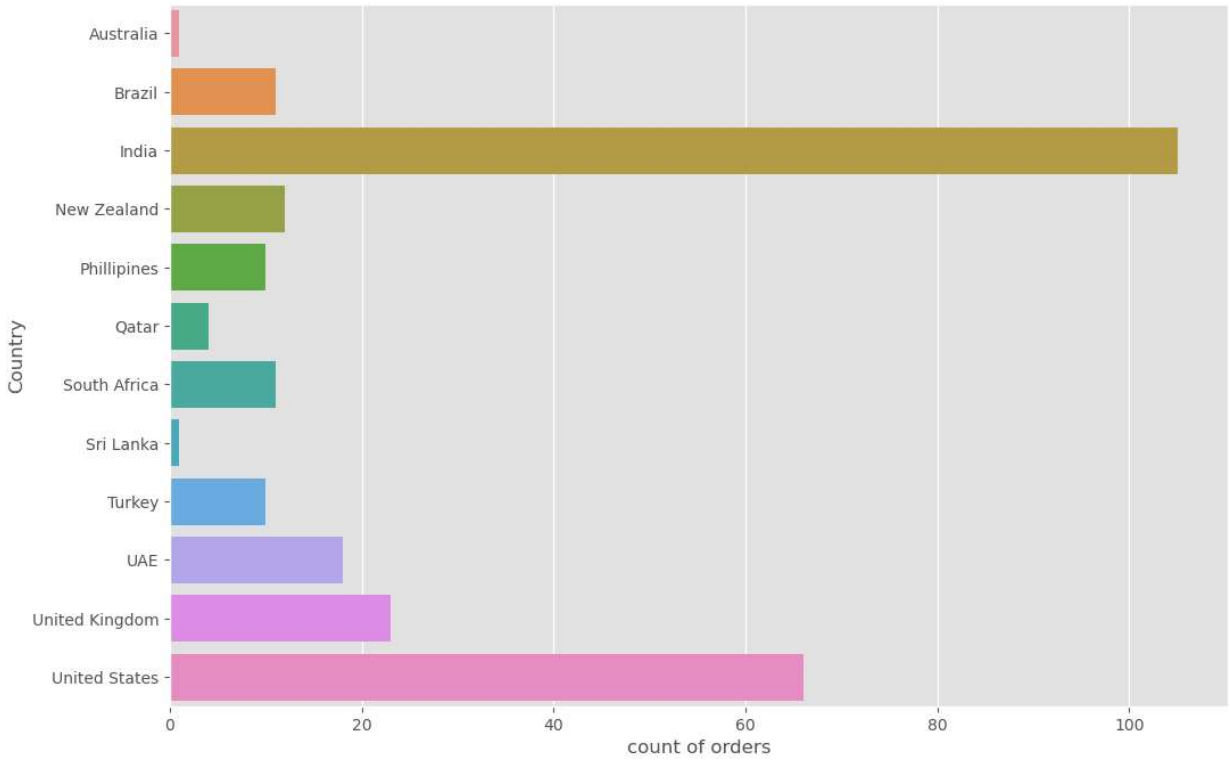
```
Top_avgcostof2= avg_costof2[avg_costof2['Rating text']=='Excellent'].groupby(['Country
Top_avgcostof2
```

Out[105]:

	Country	count of orders
0	Australia	1
1	Brazil	11
2	India	105
3	New Zealand	12
4	Phillipines	10
5	Qatar	4
6	South Africa	11
7	Sri Lanka	1
8	Turkey	10
9	UAE	18
10	United Kingdom	23
11	United States	66

In [106…

```
sns.barplot(x='count of orders', y = 'Country', data = Top_avgcostof2);
```



India has done highest no.of orders, which has excellent ratingand which costed less than 2000 for two people. Srilanka and Australia stand at least orders which has excellent rating and average cost for 2 people is less than 2000.

In [107…
```
zomato_new.columns
```

Out[107]:
```
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 [114…
```
India = zomato_new[zomato_new['Country']=='India'].groupby(['City','Restaurant Name','
India
```

Out[114]:

	City	Restaurant Name	Aggregate rating	Votes	Average Cost for two	0
0	Agra	Bon Barbecue	3.8	57	1500	1
1	Agra	Chapter 1 Cafe	3.9	98	0	1
2	Agra	Chokho Jeeman Marwari Jain Bhojanalya	4.0	87	400	1
3	Agra	Dasaprakash Restaurant	4.1	121	550	1
4	Agra	Dawat-e-Nawab - Radisson Blu	3.8	46	3600	1
...	...	...	...	...	...	...
8596	Vizag	Six Degrees	4.1	75	600	1
8597	Vizag	Sri Sairam Parlour	4.2	270	300	1
8598	Vizag	Tea Trails	3.7	57	500	1
8599	Vizag	The Square - Hotel Novotel	4.1	125	1700	1
8600	Vizag	Vista - The Park	3.8	74	1500	1

8601 rows × 6 columns

In [125…

```
Top_in_India = India[India['Aggregate rating']>=4.5].groupby(['Average Cost for two','
Top_in_India
```

Out[125]:

	Average Cost for two	Votes	City	Restaurant Name	0
0	0	77	Agra	Sheroes Hangout	1
1	150	67	New Delhi	Natural Ice Cream	1
2	150	474	New Delhi	Naturals Ice Cream	1
3	150	665	New Delhi	Natural Ice Cream	1
4	150	2620	New Delhi	Naturals Ice Cream	1
...	...	...	...	...	...
111	2300	420	Jaipur	Monarch Restaurant - Holiday Inn Jaipur City C...	1
112	2400	2369	Bangalore	The Fatty Bao - Asian Gastro Bar	1
113	3000	295	New Delhi	Neung Roi - Radisson Blu Plaza Delhi	1
114	4000	1934	New Delhi	Indian Accent - The Manor	1
115	5000	408	New Delhi	Masala Library	1

116 rows × 5 columns

From this we got the cities and restaurants name in India which has got rating >= 4.0 or rated "Excellent", in the order of costing.

In [126…

```
City_Vs_Cost = Top_in_India.groupby(['City','Average Cost for two']).size().reset_inde
City_Vs_Cost
```

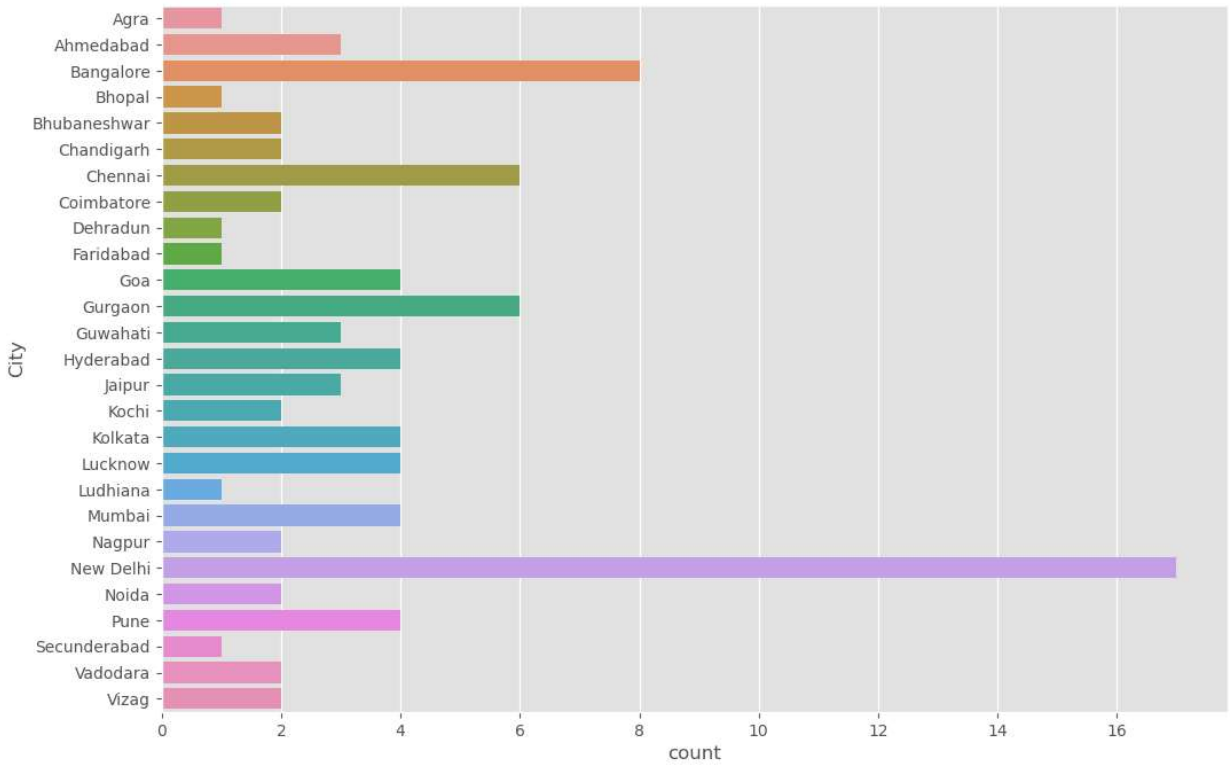
Out[126]:

	City	Average Cost for two	0
0	Agra	0	1
1	Ahmedabad	300	1
2	Ahmedabad	350	1
3	Ahmedabad	950	1
4	Bangalore	600	2
...	...	...	...
87	Secunderabad	800	1
88	Vadodara	400	1
89	Vadodara	1300	1
90	Vizag	600	1
91	Vizag	1600	1

92 rows × 3 columns

In [127…

```
sns.countplot(y='City', data = City_Vs_Cost);
```



From this we can see in India - New Delhi, Banglore, Gurgaon, Chennai and Jaipur cities stands as top4 cities where most orders are done, where the rating is Excellent(>=4.5).

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]: