```
In [9]:
            1 import numpy as np
            2 import pandas as pd
               import matplotlib.pyplot as plt
            5 import seaborn as sns
In [10]:
            1 data=pd.read csv(r"C:\Users\abhis\Downloads\Zomato data .csv")
In [11]:
            1 data.head()
Out[11]:
                           name online_order book_table rate votes approx_cost(for two people) listed_in(type)
                           Jalsa
                                         Yes
                                                    Yes 4.1/5
                                                               775
                                                                                                    Buffet
           0
                                                                                         800
                    Spice Elephant
                                                    No 4.1/5
                                                                                                    Buffet
                                         Yes
                                                               787
                                                                                        800
                  San Churro Cafe
                                                    No 3.8/5
                                                                                                    Buffet
                                         Yes
                                                               918
                                                                                        800
           3 Addhuri Udupi Bhojana
                                                    No 3.7/5
                                                                88
                                                                                        300
                                                                                                    Buffet
                                          No
                     Grand Village
                                                    No 3.8/5
                                                                                                    Buffet
                                         No
                                                               166
                                                                                        600
```

Out[12]:

In [12]:

votes approx_cost(for two people)

count	148.000000	148.000000
mean	264.810811	418.243243
std	653.676951	223.085098
min	0.000000	100.000000
25%	6.750000	200.000000
50%	43.500000	400.000000
75%	221.750000	600.000000
max	4884.000000	950.000000

1 data.describe()

```
In [14]:
           1 data.dtypes
Out[14]: name
                                          object
          online order
                                          object
          book table
                                          object
          rate
                                          object
          votes
                                           int64
          approx_cost(for two people)
                                           int64
         listed in(type)
                                          object
          dtype: object
           1 # First converting datatype of rate from object to flot value and removing denominator
 In [ ]:
In [18]:
           1 def HandleRate(value):
           2
                  value=str(value).split('/')
           3
                  value=value[0]
                   return float(value)
           4
              data['rate']=data['rate'].apply(HandleRate)
           8
In [19]:
           1 data.head()
Out[19]:
                               online_order book_table rate votes approx_cost(for two people) listed_in(type)
                                                      4.1
                                                            775
                                                                                   800
          0
                          Jalsa
                                       Yes
                                                 Yes
                                                                                               Buffet
                   Spice Elephant
                                                      4.1
          1
                                       Yes
                                                            787
                                                                                   800
                                                                                               Buffet
```

No

No

No

No

3.8

3.7

3.8

918

88

166

800

300

600

Buffet

Buffet

Buffet

Yes

No

No

2

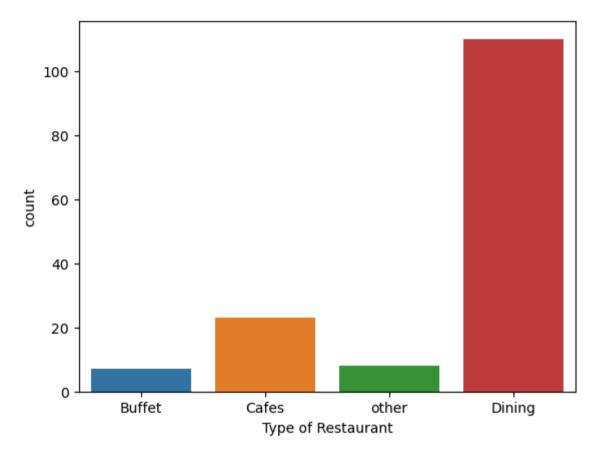
San Churro Cafe

Grand Village

3 Addhuri Udupi Bhojana

```
1 data.info()
In [20]:
         <class 'pandas.core.frame.DataFrame'>
         RangeIndex: 148 entries, 0 to 147
         Data columns (total 7 columns):
                                          Non-Null Count Dtype
              Column
             _____
                                                          object
                                          148 non-null
          0
              name
              online order
                                          148 non-null
                                                          object
              book table
                                          148 non-null
                                                          object
                                                          float64
              rate
                                          148 non-null
              votes
                                          148 non-null
                                                          int64
              approx cost(for two people) 148 non-null
                                                          int64
            listed in(type)
                                          148 non-null
                                                          object
         dtypes: float64(1), int64(2), object(4)
         memory usage: 8.2+ KB
 In [ ]:
          1 # no null value is there
 In [ ]:
          1 #Type of restaurant
```

Out[23]: Text(0.5, 0, 'Type of Restaurant')



In []: 1 # the majority of the taurants fallinto dining category

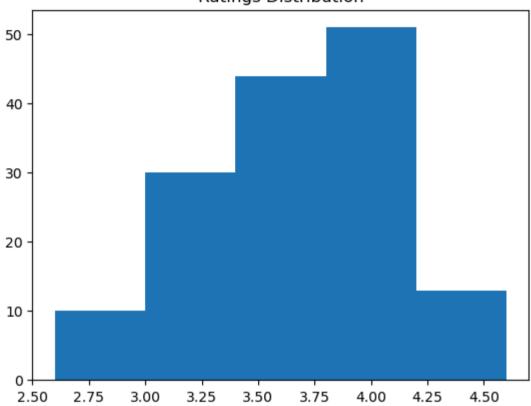
In []: | 1 #Dining restaurants preferred by a larger number of people

Out[26]: Text(0, 0.5, 'votes')



In []: | 1 #The majority of restaurants received ratings



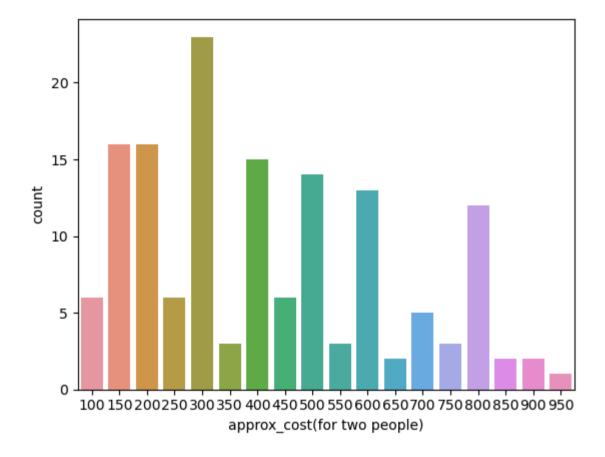


In [29]: 1 #conclusion: The majority of restaurants received ratings ranging from 3.5 to 4.

In [30]: | 1 #The majority of couples prefer restaurants with an approximate cost of 300 rupees.

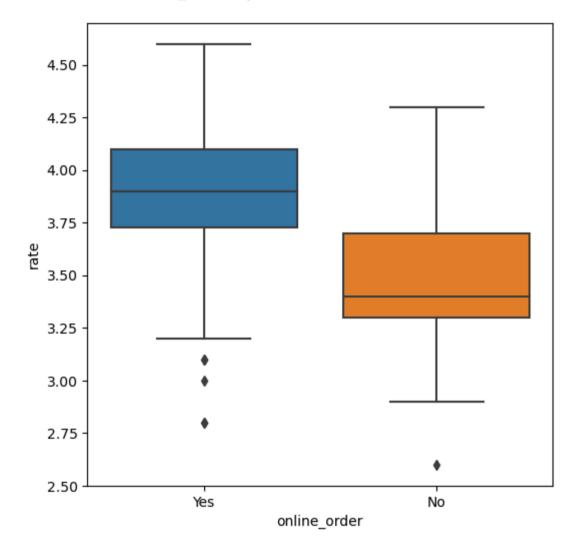
```
In [31]: 1 couple_data=data['approx_cost(for two people)']
2 sns.countplot(x=couple_data)
```

Out[31]: <Axes: xlabel='approx_cost(for two people)', ylabel='count'>



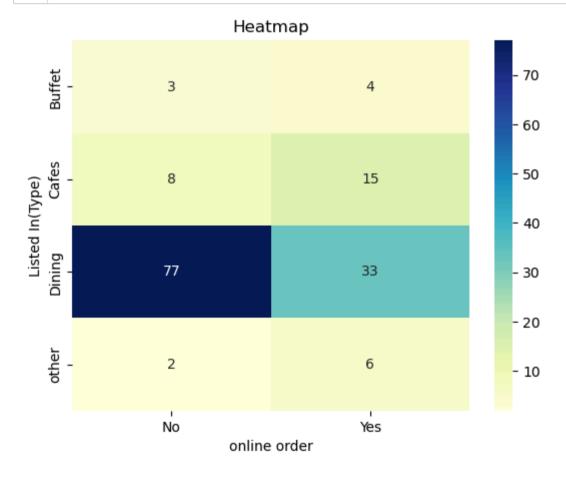
In []: | 1 | #whether online orders receive higher ratings than offline orders

Out[32]: <Axes: xlabel='online_order', ylabel='rate'>



In []: | 1 #conclusion: offline orders received lower ratings in comparison to online orders, which obtained excellent rating

```
In [33]: 1
2  pivot_table=data.pivot_table(index='listed_in(type)',columns='online_order',aggfunc='size',fill_value=0)
3  sns.heatmap(pivot_table,annot=True,cmap="YlGnBu",fmt='d')
4  plt.title('Heatmap')
6  plt.xlabel("online order")
7  plt.ylabel("Listed In(Type)")
8  plt.show()
```



```
In [ ]: 3
```