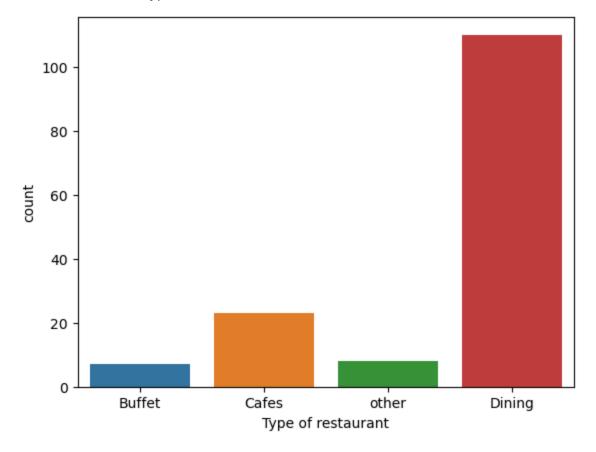
```
In [1]: #Zomato Data Analysis Using Python
 In [1]: import pandas as pd
 In [2]: import numpy as np
 In [3]: import matplotlib.pyplot as plt
         import seaborn as sns
In [14]: dataframe = pd.read csv("G:\Data Science\DA Projects\Zomato-data.csv")
         print(dataframe.head())
                            name online order book table
                                                            rate votes \
        0
                                           Yes
                                                      Yes 4.1/5
                                                                    775
                                                       No 4.1/5
                                                                    787
        1
                  Spice Elephant
                                           Yes
        2
                 San Churro Cafe
                                           Yes
                                                       No 3.8/5
                                                                    918
        3 Addhuri Udupi Bhojana
                                                       No 3.7/5
                                                                     88
                                            No
                   Grand Village
                                                       No 3.8/5
                                            No
                                                                    166
           approx cost(for two people) listed in(type)
        0
                                   800
                                   800
                                                 Buffet
        1
        2
                                   800
                                                 Buffet
        3
                                   300
                                                 Buffet
        4
                                   600
                                                 Buffet
 In [ ]: #Before proceeding, let's convert the data type of the "rate" column to float
In [15]: def handleRate(value):
             value=str(value).split('/')
             value=value[0];
             return float(value)
         dataframe['rate']=dataframe['rate'].apply(handleRate)
         print(dataframe.head())
                            name online order book table rate
                                                                 votes \
        0
                           Jalsa
                                           Yes
                                                      Yes
                                                            4.1
                                                                   775
        1
                  Spice Elephant
                                           Yes
                                                       No
                                                            4.1
                                                                   787
        2
                                                            3.8
                 San Churro Cafe
                                           Yes
                                                       No
                                                                   918
        3 Addhuri Udupi Bhojana
                                                       No
                                                            3.7
                                                                   88
                                            No
        4
                   Grand Village
                                            No
                                                       No
                                                            3.8
                                                                   166
           approx cost(for two people) listed in(type)
        0
                                   800
                                                 Buffet
                                   800
                                                 Buffet
        1
        2
                                                 Buffet
                                   800
        3
                                                 Buffet
                                   300
        4
                                                 Buffet
                                   600
In [16]: dataframe.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 148 entries, 0 to 147
Data columns (total 7 columns):
     Column
                                 Non-Null Count Dtype
     -----
                                 -----
                                                 ----
 0
                                 148 non-null
                                                 object
    name
                                 148 non-null
 1
    online order
                                                 object
 2
    book_table
                                 148 non-null
                                                 object
 3
    rate
                                 148 non-null
                                                 float64
 4
    votes
                                 148 non-null
                                                 int64
 5
     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 [17]: sns.countplot(x=dataframe['listed_in(type)'])
   plt.xlabel("Type of restaurant")
```

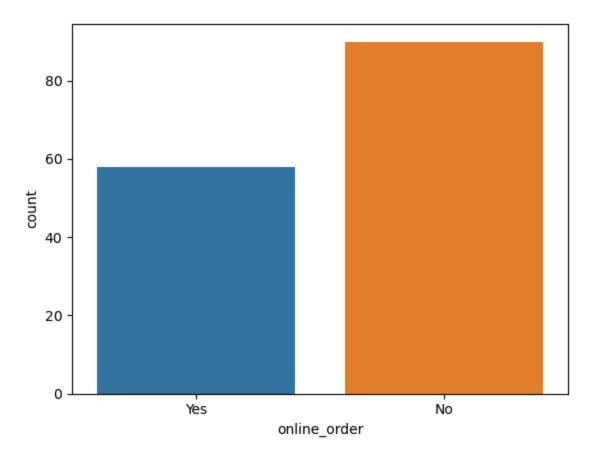
Out[17]: Text(0.5, 0, 'Type of restaurant')



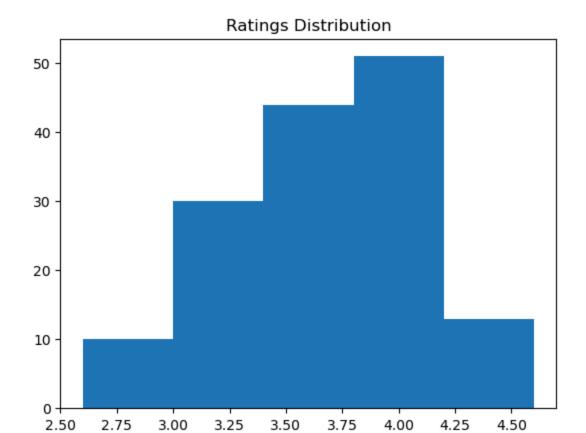
In []: #Conclusion: The majority of the restaurants fall into the dining category.
In [18]: grouped_data = dataframe.groupby('listed_in(type)')['votes'].sum()
 result = pd.DataFrame({'votes': grouped_data})
 plt.plot(result, c='green', marker='o')
 plt.xlabel('Type of restaurant', c='red', size=20)
 plt.ylabel('Votes', c='red', size=20)

Out[18]: Text(0, 0.5, 'Votes')



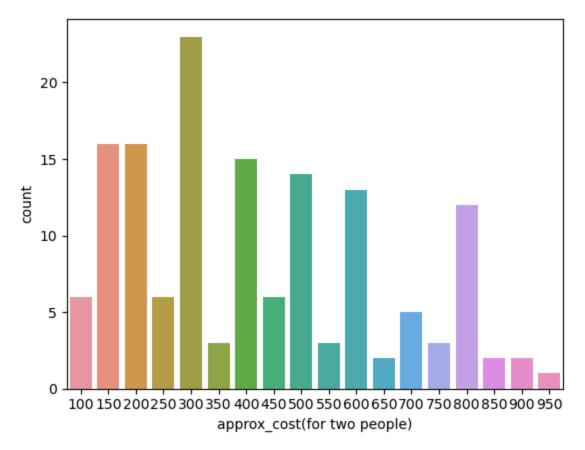


In []: #Conclusion: This suggests that a majority of the restaurants do not accept
In [21]: plt.hist(dataframe['rate'],bins=5)
 plt.title('Ratings Distribution')
 plt.show()

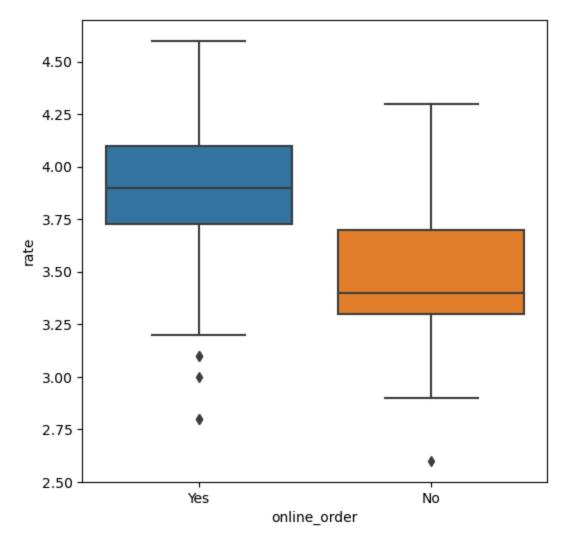


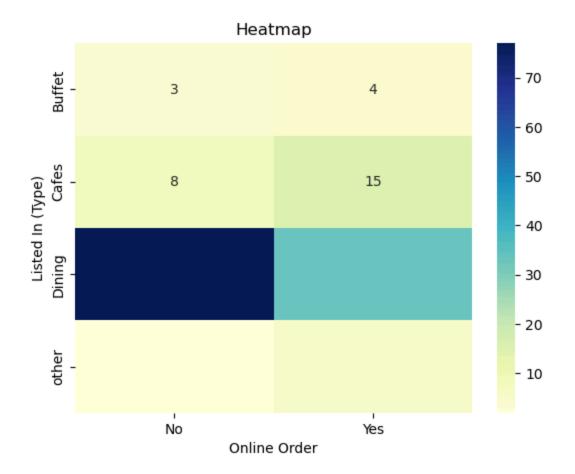
```
In []: #Conclusion: The majority of restaurants received ratings ranging from 3.5 t
In []: #Let's explore the approx_cost(for two people) column.
In [22]: couple_data=dataframe['approx_cost(for two people)']
sns.countplot(x=couple_data)
```

Out[22]: <Axes: xlabel='approx_cost(for two people)', ylabel='count'>



```
In []: #Let's explore the approx_cost(for two people) column.
In []: #Now we will examine whether online orders receive higher ratings than offli
In [23]: plt.figure(figsize = (6,6))
    sns.boxplot(x = 'online_order', y = 'rate', data = dataframe)
Out[23]: <Axes: xlabel='online_order', ylabel='rate'>
```





In []: #CONCLUSION: Dining restaurants primarily accept offline orders, whereas cat #This suggests that clients prefer to place orders in person at restaurants,

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