Import necessary Python libraries

Create the data frame

```
In [2]:
            dataframe = pd.read csv("Zomato data .csv")
            print(dataframe.head())
                            name online order book table
                                                            rate votes \
        0
                           Jalsa
                                           Yes
                                                           4.1/5
                                                                    775
                                                      Yes
        1
                  Spice Elephant
                                           Yes
                                                       No 4.1/5
                                                                    787
                 San Churro Cafe
                                           Yes
                                                       No 3.8/5
                                                                    918
                                                           3.7/5
        3
           Addhuri Udupi Bhojana
                                           No
                                                                     88
                                                       No
                   Grand Village
                                           No
                                                       No 3.8/5
                                                                    166
           approx_cost(for two people) listed_in(type)
                                    800
                                                 Buffet
        1
                                    800
        2
                                    800
                                                 Buffet
        3
                                                 Buffet
                                    300
        4
                                                 Buffet
                                    600
```

Convert the data type of the "rate" column to float and remove the denominator

```
In [3]:
             def handleRate(value):
                 value=str(value).split('/')
          2
          3
                 value=value[0];
          4
                 return float(value)
          5
             dataframe['rate']=dataframe['rate'].apply(handleRate)
             print(dataframe.head())
                              name online_order book_table
                                                             rate votes
        0
                                                              4.1
                                            Yes
                                                                      775
        1
                   Spice Elephant
                                            Yes
                                                         No
                                                              4.1
                                                                      787
        2
                  San Churro Cafe
                                            Yes
                                                              3.8
                                                                      918
                                                         No
           Addhuri Udupi Bhojana
                                             No
                                                         No
                                                              3.7
                                                                       88
        4
                    Grand Village
                                             No
                                                              3.8
                                                                      166
                                                         No
            approx_cost(for two people) listed_in(type)
        0
                                     800
                                                   Buffet
        1
                                     800
                                                   Buffet
        2
                                     800
                                                   Buffet
        3
                                     300
                                                   Buffet
        4
                                                   Buffet
                                     600
```

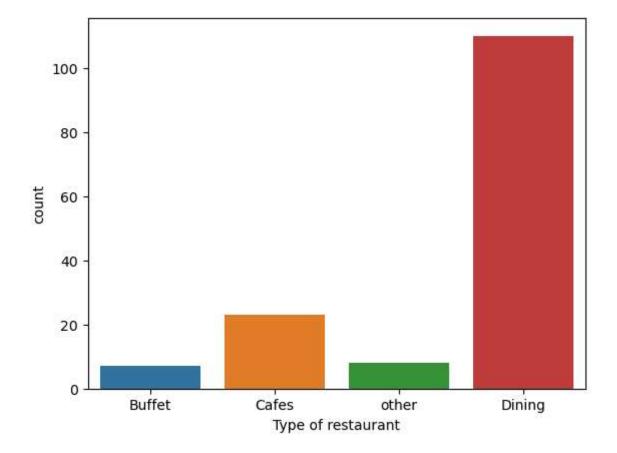
Summary of the data frame

```
In [4]:
             dataframe.info()
        <class 'pandas.core.frame.DataFrame'>
        RangeIndex: 148 entries, 0 to 147
        Data columns (total 7 columns):
             Column
                                           Non-Null Count Dtype
        ---
             name
                                                            object
         0
                                           148 non-null
         1
             online_order
                                           148 non-null
                                                            object
         2
                                                            object
             book_table
                                           148 non-null
         3
                                                            float64
             rate
                                           148 non-null
         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
```

Exploring the listed_in (type) column

```
In [5]: 1 sns.countplot(x=dataframe['listed_in(type)'])
2 plt.xlabel("Type of restaurant")
```

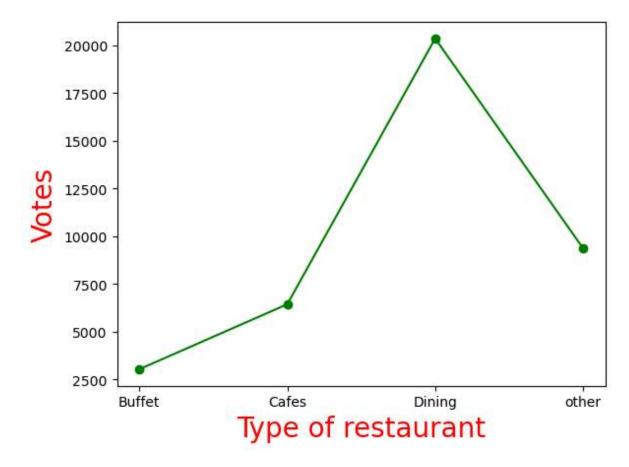
Out[5]: Text(0.5, 0, 'Type of restaurant')



Conclusion: The majority of the restaurants fall into the dining category.

```
In [6]: 1 grouped_data = dataframe.groupby('listed_in(type)')['votes'].sum()
2 result = pd.DataFrame({'votes': grouped_data})
3 plt.plot(result, c="green", marker="o")
4 plt.xlabel("Type of restaurant", c="red", size=20)
5 plt.ylabel("Votes", c="red", size=20)
```

Out[6]: Text(0, 0.5, 'Votes')



Conclusion: Dining restaurants are preferred by a larger number of individuals.

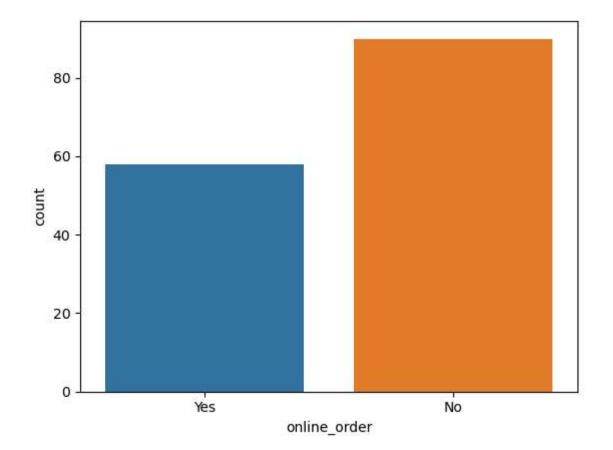
Determining the restaurant's name that received the maximum votes based on a given dataframe

Restaurant(s) with the maximum votes:

38 Empire Restaurant Name: name, dtype: object

Exploring the online_order column

```
In [9]:    1    sns.countplot(x=dataframe['online_order'])
Out[9]:    <Axes: xlabel='online_order', ylabel='count'>
```

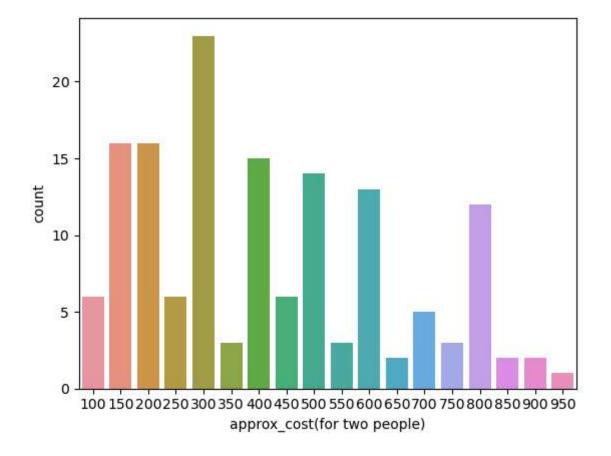


Conclusion: This suggests that a majority of the restaurants do not accept online orders.

Exploring the approx_cost(for two people) column

```
In [10]: 1 couple_data=dataframe['approx_cost(for two people)']
2 sns.countplot(x=couple_data)
```

Out[10]: <Axes: xlabel='approx_cost(for two people)', ylabel='count'>



Conclusion: The majority of couples prefer restaurants with an approximate cost of 300 rupees.

In []: 1