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

In [2]:
```
data=pd.read_csv("C:\\Users\\praya\\Downloads\\Zomato data .csv")
```

In [3]:
```
print(data.head())
```

```
                  name online_order book_table   rate  votes  \
0                Jalsa          Yes        Yes  4.1/5    775
1        Spice Elephant          Yes         No  4.1/5    787
2       San Churro Cafe          Yes         No  3.8/5    918
3  Addhuri Udupi Bhojana           No         No  3.7/5     88
4          Grand Village           No         No  3.8/5    166

   approx_cost(for two people) listed_in(type)
0                           800          Buffet
1                           800          Buffet
2                           800          Buffet
3                           300          Buffet
4                           600          Buffet
```

In [6]:
```
def ratedata(value):
    value=str(value).split("/")
    value=value[0]
    return float(value)
data['rate']=data['rate'].apply(ratedata)
```

In [7]:
```
print(data.head())
```

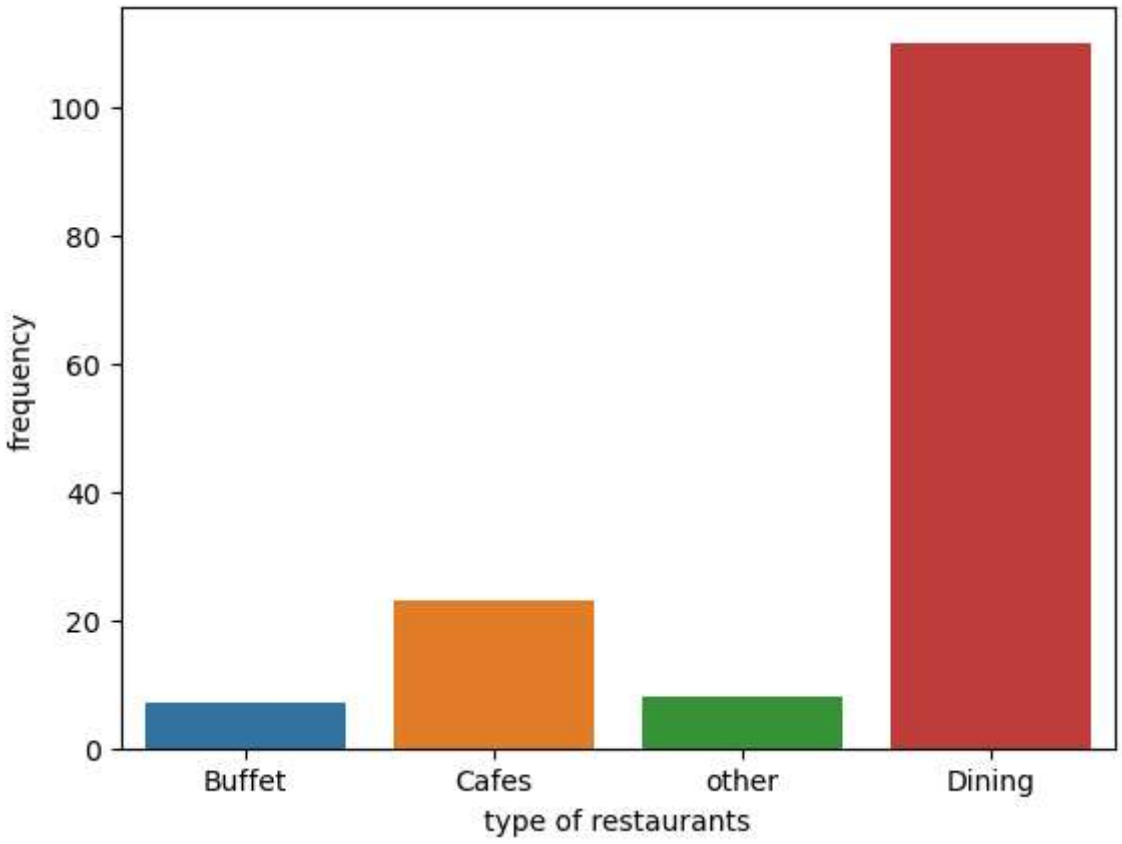
```
                  name online_order book_table  rate  votes  \
0                Jalsa          Yes        Yes   4.1    775
1        Spice Elephant          Yes         No   4.1    787
2       San Churro Cafe          Yes         No   3.8    918
3  Addhuri Udupi Bhojana           No         No   3.7     88
4          Grand Village           No         No   3.8    166

   approx_cost(for two people) listed_in(type)
0                           800          Buffet
1                           800          Buffet
2                           800          Buffet
3                           300          Buffet
4                           600          Buffet
```

In [8]:
```
data.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 148 entries, 0 to 147
Data columns (total 7 columns):
 #   Column                       Non-Null Count  Dtype
---  ------                       --------------  -----
 0   name                         148 non-null    object
 1   online_order                 148 non-null    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
 6   listed_in(type)              148 non-null    object
dtypes: float64(1), int64(2), object(4)
memory usage: 8.2+ KB
```

In [14]:
```
sns.countplot(x=data['listed_in(type)'])
plt.xlabel("type of restaurants")
plt.ylabel("frequency")
```

Out[14]:
```
Text(0, 0.5, 'frequency')
```



In [16]:
```
data['votes'].describe()
```

Out[16]:
```
count     148.000000
mean      264.810811
std       653.676951
min         0.000000
25%         6.750000
50%        43.500000
75%       221.750000
max      4884.000000
Name: votes, dtype: float64
```

In [47]:
```
grouped_data = data.groupby('listed_in(type)')['approx_cost(for two people)'].mean()
result = pd.DataFrame({'approx_cost(for two people)': grouped_data})
result
```

Out[47]:

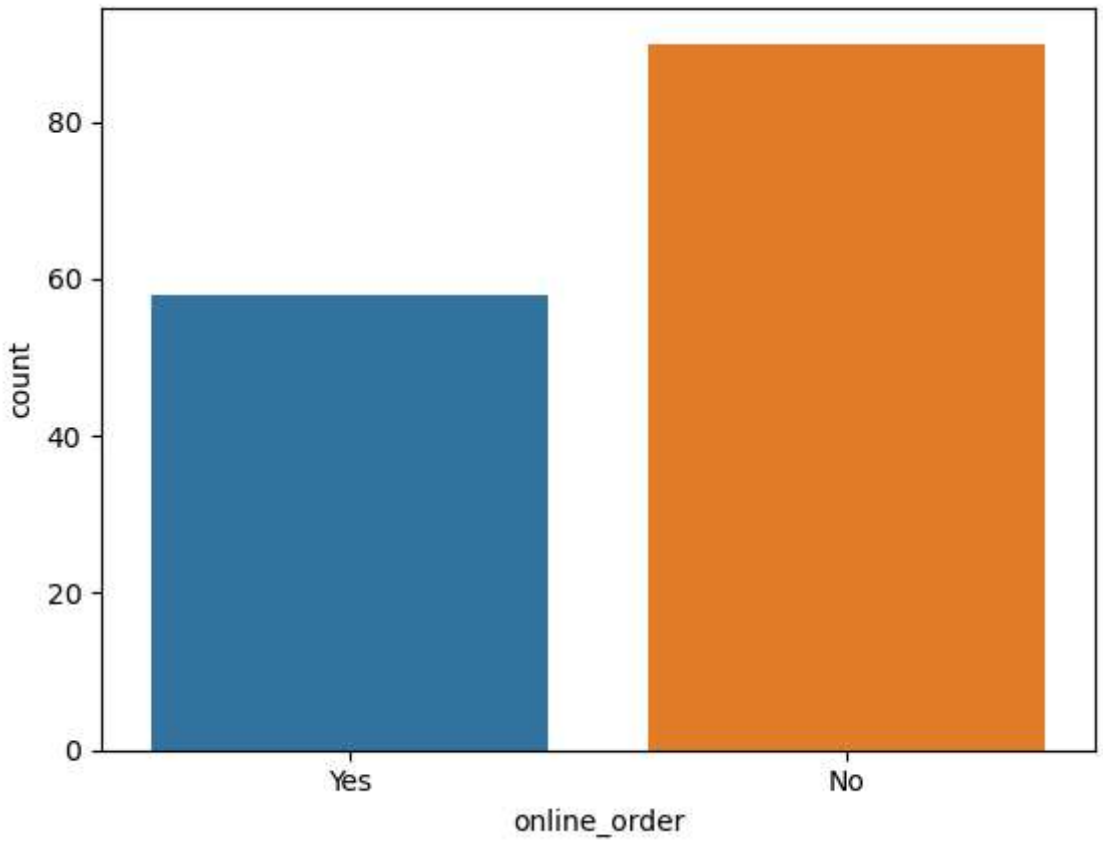
listed_in(type)	approx_cost(for two people)
Buffet	671.428571
Cafes	545.652174
Dining	357.272727
other	668.750000

In [50]:
```
maxvotes=data['votes'].max()
maxvotesname=data.loc[data['votes']==maxvotes,'name']
maxvotes
maxvotesname
```

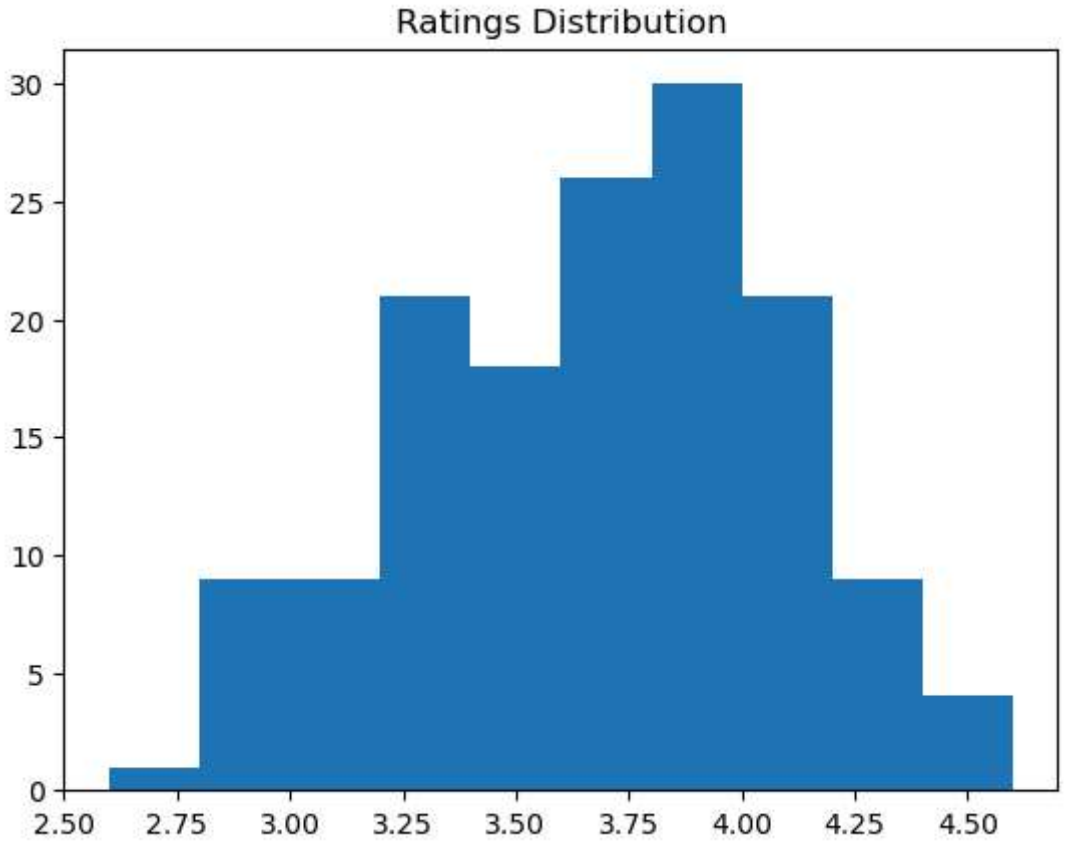
Out[50]:
```
38    Empire Restaurant
Name: name, dtype: object
```

In [52]:
```
sns.countplot(x=data['online_order'])
```

Out[52]:
```
<Axes: xlabel='online_order', ylabel='count'>
```

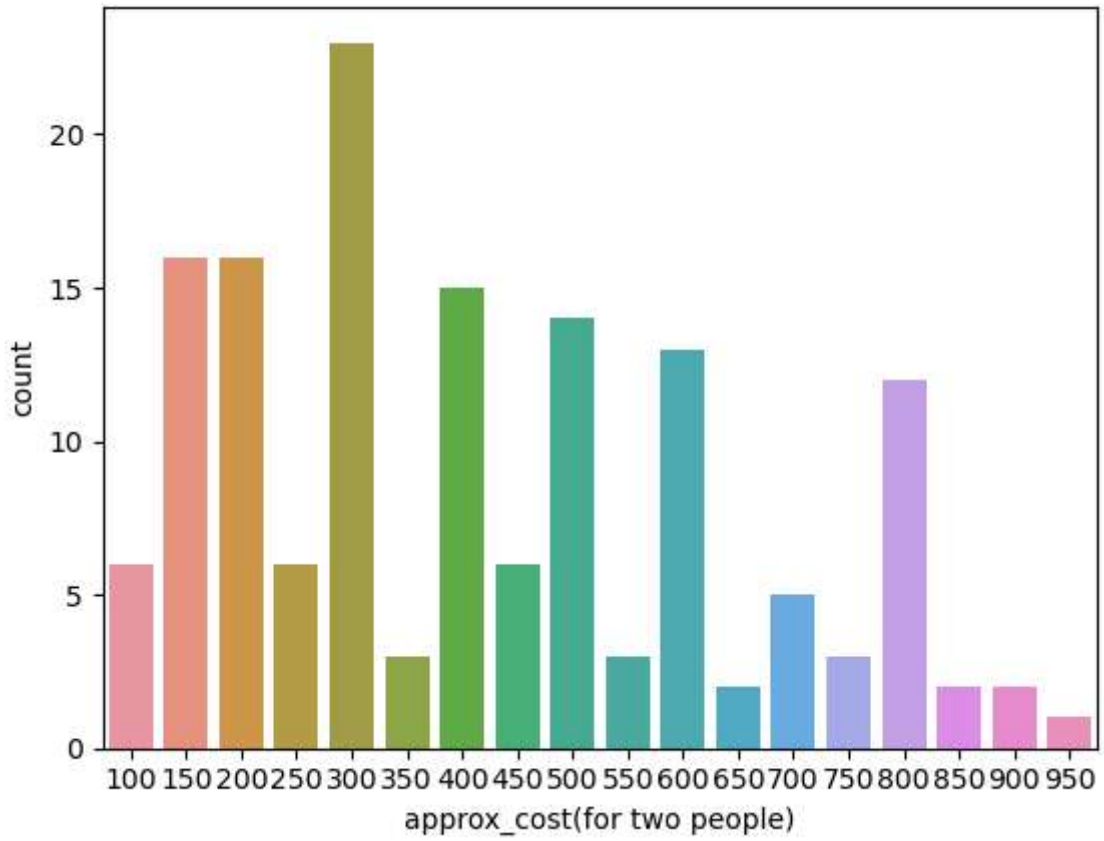


In [53]:
```
plt.hist(data['rate'],bins=10)
plt.title("Ratings Distribution")
plt.show()
```



In [56]:
```
sns.countplot(x=data['approx_cost(for two people)'])
```

Out[56]:
```
<Axes: xlabel='approx_cost(for two people)', ylabel='count'>
```



In [ ]: