In []: d In [95]: d Out[95]:	<pre>import numpy as np import pandas as pd import matplotlib.pyplot as plt import seaborn as sns</pre>
	Alata=pd.read_csv('Zomato data .csv',encoding='latin1') Alata name online_order book_table rate votes approx_cost(for two people) listed_in(type)
	2 San Churro Cafe Yes No 3.8 918 800 Buffet 3 Addhuri Udupi Bhojana No No 3.7 88 300 Buffet 4 Grand Village No No No 3.8 166 600 Buffet
1 1 1	144 New Indraprasta No No 3.3 0 150 Dining 145 Anna Kuteera Yes No 4.0 771 450 Dining 146 Darbar No No 3.0 98 800 Dining 147 Vijayalakshmi Yes No 3.9 47 200 Dining 48 rows × 7 columns
In []: d	data['rate']=data['rate'].str.split('/').str[0].astype(float) data.info() data.isnull().sum() data['name'].unique()
a p p p	<pre>ix=sns.countplot(x='listed_in(type)',data=data,hue='listed_in(type)') ix plt.title('Restro') plt.ylabel('Count') plt.xlabel('Restro Type') for i in ax.containers: ax.bar_label(i) plt.show()</pre> Restro
	100 - 80 -
Count	40 - 20 -
(Buffet Cafes Restro Type Dining conclusion - majority of customer are falls in Dinning category
	restro_votes=data.groupby('listed_in(type)')['votes'].sum().reset_index() restro_votes listed_in(type) votes Buffet 3028 Cafes 6434
s	2 Dining 20363
f	<pre>cor x, y in zip(restro_votes['listed_in(type)'], restro_votes['votes']): plt.text(x, y, str(y), ha='center', va='bottom', fontsize=9) slt.show()</pre> <pre> Retro Votes</pre>
otes	17500 - 15000 - 12500 - 10000 - 7500 - 6434
(Buffet Cafes Dining other Conclusion - Dining restro has maximum votes
p p	Maximum Rating Ratio
	25 - 20 - 15 -
	10 - 5 - 2.50 2.75 3.00 3.25 3.50 3.75 4.00 4.25 4.50
In []:	conclusion - maximum rating falls in between 3.5 to 4
a p p p	<pre>ix=sns.countplot(x='approx_cost(for two people)',data=data,hue='approx_cost(for two people)',palette='inferno') ix ix</pre>
	20 - 15 - 16 16 15 14 13 approx_cost(for two people) == 150 == 300 == 600 == 750 == 900
Count	10 - 5 - 6 3 3 2 2 2
In []:	0 100 150 200 250 300 350 400 450 500 550 600 650 700 750 800 850 900 950 conclusion - couples prefer order to most of 300 amount
In [118 s p p	ons.boxplot(x='online_order',y='rate',data=data) plt.title('Online order & Rating') plt.show() Online order & Rating 4.50 -
	4.00 - 3.75 - 3.50 -
	3.25 - O O O O O O O O O O O O O O O O O O
In []:	conclusion- Online order has maximum rating than offline order leatmap_data = data.pivot_table(index='listed_in(type)', columns='online_order', aggfunc='size', fill_value=0)
p p p	Ins.heatmap(heatmap_data, annot=True, fmt="d", cmap="Y1GnBu") Ins.heatmap(heatmap_data, annot=True, fmt="d", cmap="Y1GnBu") Ins.heatmap(heatmap_data, annot=True, fmt="d", cmap="Y1GnBu") Ins.heatmap of Online Order and Restro Type") Ins.heatmap(heatmap_data, annot=True, fmt="d", cmap="Y1GnBu") Ins.heatmap of Online Order and Restro Type Heatmap of Online Order and Restro Type
	4 - 3 4 - 60 - 50
	15
In []:	No Yes Online Order
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