NAMASTE CONNECTION'S

Zomato Data Analysis

TOPICS

1. Most Popular Restaurafit Type for Orders.
2. Customer Votes by Restaurafit Type.
3. Majority Ratifigs for Restaurafits
4. Average Spefidifig per Order by Couples
5. Highest Rated Order Mode: Ofilifie vs Offlifie
6. Restaurafit Type with Most Offlifie Orders for Offers

1

Most Popular Restaurant Type for Orders.

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Code JupyterLab Python 3 (ipykernel)

```
 6   listed_in(type)              148 non-null    object
dtypes: float64(1), int64(2), object(4)
memory usage: 8.2+ KB
```

Type of Restaurant

[20]:
```
dataframe.head()
```

[20]:

	name	online_order	book_table	rate	votes	approx_cost(for two people)	listed_in(type)
0	Jalsa	Yes	Yes	4.1	775	800	Buffet
1	Spice Elephant	Yes	No	4.1	787	800	Buffet
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	3.8	166	600	Buffet

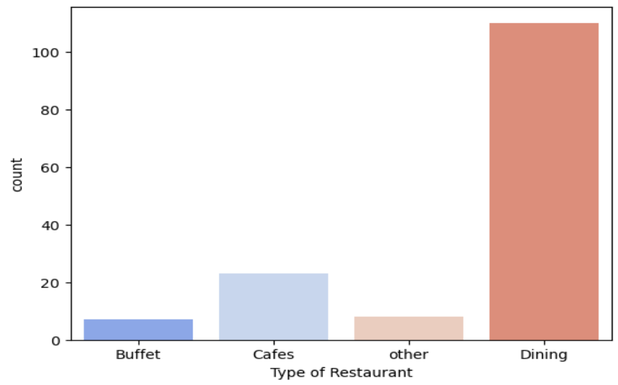
[64]:
```
sns.countplot(x=dataframe['listed_in(type)'],palette='coolwarm')
plt.xlabel("Type of Restaurant")
```

```
/var/folders/28/vmfgqzyx7r7ghdy44b0802wr0000gn/T/ipykernel_5494/443523891.py:1: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and set `legend=False` for the same effect.

  sns.countplot(x=dataframe['listed_in(type)'],palette='coolwarm')
```

[64]:
```
Text(0.5, 0, 'Type of Restaurant')
```



2

Customer Votes by Restaurant Type.

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Code JupyterLab Python 3 (ipykernel)

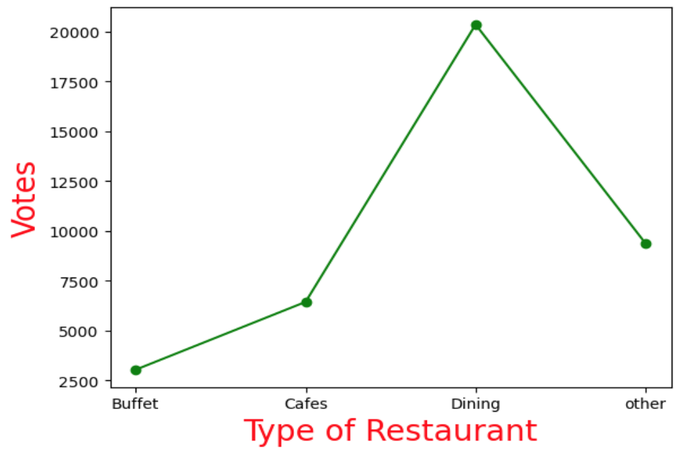
[24]:
```
dataframe.head()
```

[24]:

	name	online_order	book_table	rate	votes	approx_cost(for two people)	listed_in(type)
0	Jalsa	Yes	Yes	4.1	775	800	Buffet
1	Spice Elephant	Yes	No	4.1	787	800	Buffet
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	3.8	166	600	Buffet

[32]:
```
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)
```

[32]:
```
Text(0, 0.5, 'Votes')
```



- conclusion - dining restaurants has received maximum votes

3

Majority Ratings for Restaurants.

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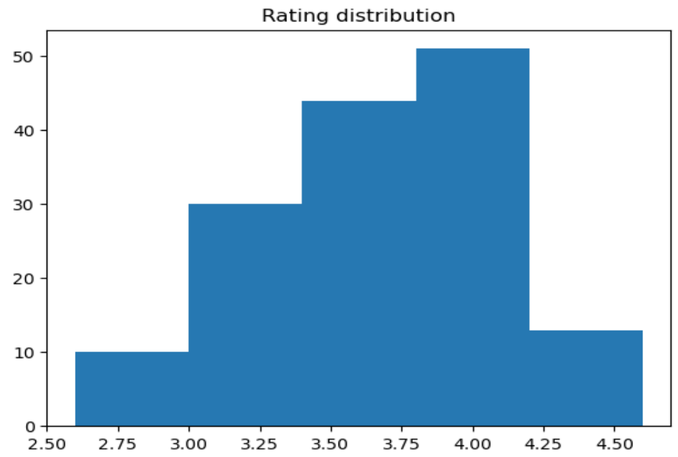
Code JupyterLab Python 3 (ipykernel)

[39]:
```
dataframe.head()
```

[39]:

	name	online_order	book_table	rate	votes	approx_cost(for two people)	listed_in(type)
0	Jalsa	Yes	Yes	4.1	775	800	Buffet
1	Spice Elephant	Yes	No	4.1	787	800	Buffet
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	3.8	166	600	Buffet

[45]:
```
plt.hist(dataframe['rate'],bins = 5)
plt.title("Rating distribution")
plt.show()
```



- conclusion - The majority restaurants received ratings from 3.5 to 4

4

Average Spending per Order by Couples

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Code JupyterLab Python 3 (ipykernel)

Average order spending by couples

[50]:
```
dataframe.head()
```

[50]:

	name	online_order	book_table	rate	votes	approx_cost(for two people)	listed_in(type)
0	Jalsa	Yes	Yes	4.1	775	800	Buffet
1	Spice Elephant	Yes	No	4.1	787	800	Buffet
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	3.8	166	600	Buffet

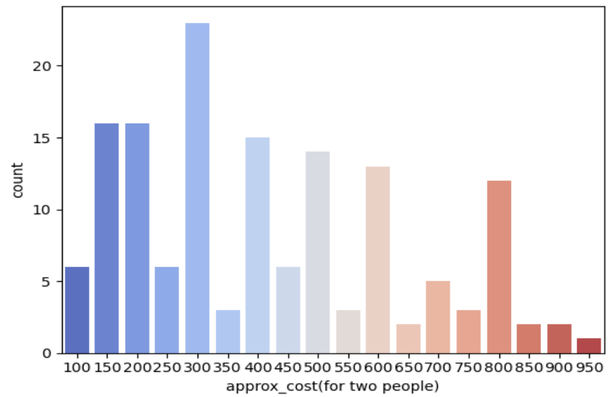
[56]:
```
couple_data = dataframe['approx_cost(for two people)']
sns.countplot(x=couple_data , palette='coolwarm')
```

```
/var/folders/28/vmfgqzyx7r7ghdy44b0802wr0000gn/T/ipykernel_5494/2848917233.py:2: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and set `legend=Fals
e` for the same effect.

  sns.countplot(x=couple_data , palette='coolwarm')
```

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



- Conclusion - The majority of couples prefer restaurant with an approximate cost of 300 rupees

5

Highest Rated Order Mode: Online vs Offline

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Code JupyterLab Python 3 (ipykernel)

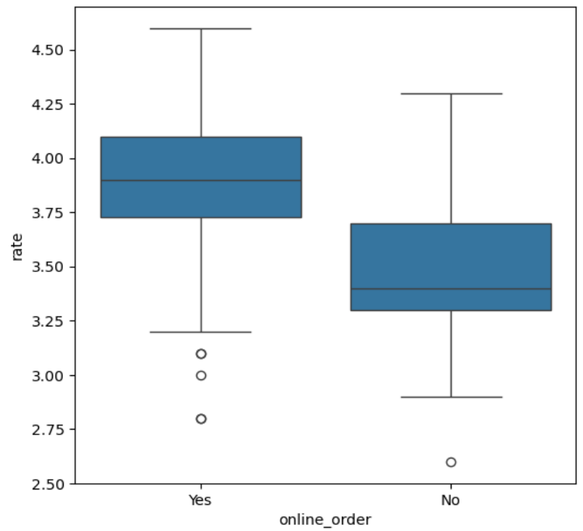
[67]:
```
dataframe.head()
```

[67]:

	name	online_order	book_table	rate	votes	approx_cost(for two people)	listed_in(type)
0	Jalsa	Yes	Yes	4.1	775	800	Buffet
1	Spice Elephant	Yes	No	4.1	787	800	Buffet
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	3.8	166	600	Buffet

[69]:
```
plt.figure(figsize = (6,6))
sns.boxplot(x='online_order', y='rate', data=dataframe)
```

[69]:
```
<Axes: xlabel='online_order', ylabel='rate'>
```



- conclusion - Online rating received maximum than offline

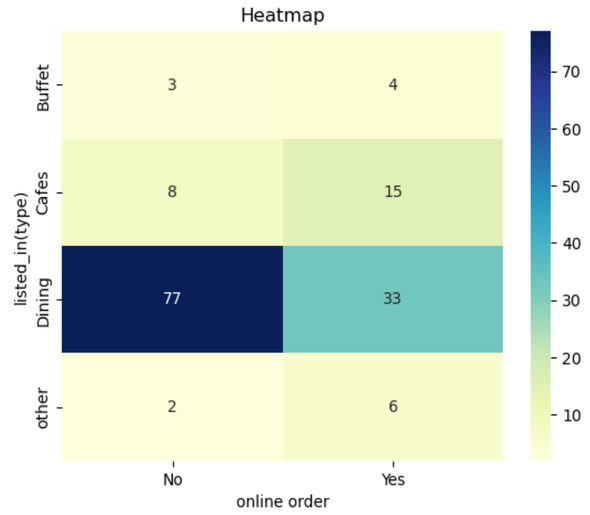
6 Restaurant Type with Most Offline Orders for Offers

[72]:
```
dataframe.head()
```

[72]:

	name	online_order	book_table	rate	votes	approx_cost(for two people)	listed_in(type)
0	Jalsa	Yes	Yes	4.1	775	800	Buffet
1	Spice Elephant	Yes	No	4.1	787	800	Buffet
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	3.8	166	600	Buffet

[80]:
```
pivot_table = dataframe.pivot_table(index='listed_in(type)', columns='online_order', aggfunc='size', fill_value=0)
sns.heatmap(pivot_table, annot=True, cmap="YlGnBu", fmt='d')
plt.title("Heatmap")
plt.xlabel("online order")
plt.ylabel("listed_in(type)")
plt.show()
```



- conclusion - Dining restaurant primarily accept offline orders, whereas cafes primarily receive online orders.

Thank you for Your Time!