```python
#Restaurant with the highest votes.

#Restaurant with the lowest votes.

#Analyze Correlation:

#Is there a relationship between Votes and Aggregate Rating?


#Step 1: Import Libraries & Load Dataset
#Step 2: Handle Missing or Invalid Values
#Step 3: Highest & Lowest Votes
#Step 4: Scatter Plot (Votes vs Aggregate Rating)
#Step 5: Correlation Analysis
```

```python
from google.colab import files
uploaded = files.upload()
```

Choose Files | No file chosen   Upload widget is only available when the cell has been executed in the current browser session. Please rerun this cell to enable.
Saving Dataset .csv to Dataset .csv

```python
import pandas as pd

df = pd.read_csv("Dataset .csv")


df.head()
```

	Restaurant ID	Restaurant Name	Country Code	City	Address	Locality	Locality Verbose	Longitude	Latitude	Cuisines	...	Currency	Has Table booking	Has Online delivery	Is delivering now	Switch to order menu	Price range	Aggregate rating	Rating color
0	6317637	Le Petit Souffle	162	Makati City	Third Floor, Century City Mall, Kalayaan Avenu...	Century City Mall, Poblacion, Makati City	Century City Mall, Poblacion, Makati City, Mak...	121.027535	14.565443	French, Japanese, Desserts	...	Botswana Pula(P)	Yes	No	No	No	3	4.8	Dark Green
1	6304287	Izakaya Kikufuji	162	Makati City	Little Tokyo, 2277 Chino Roces Avenue, Legaspi...	Little Tokyo, Legaspi Village, Makati City	Little Tokyo, Legaspi Village, Makati City, Ma...	121.014101	14.553708	Japanese	...	Botswana Pula(P)	Yes	No	No	No	3	4.5	Dark Green
2	6300002	Heat - Edsa Shangri-La	162	Mandaluyong City	Edsa Shangri-La, 1 Garden Way, Ortigas, Mandal...	Edsa Shangri-La, Ortigas, Mandaluyong City	Edsa Shangri-La, Ortigas, Mandaluyong City, Ma...	121.056831	14.581404	Seafood, Asian, Filipino, Indian	...	Botswana Pula(P)	Yes	No	No	No	4	4.4	Green
3	6318506	Ooma	162	Mandaluyong City	Third Floor, Mega Fashion Hall, SM Megamall, O...	SM Megamall, Ortigas, Mandaluyong City	SM Megamall, Ortigas, Mandaluyong City, Mandal...	121.056475	14.585318	Japanese, Sushi	...	Botswana Pula(P)	No	No	No	No	4	4.9	Dark Green
4	6314302	Sambo Kojin	162	Mandaluyong City	Third Floor, Mega Atrium, SM Megamall, Ortigas...	SM Megamall, Ortigas, Mandaluyong City	SM Megamall, Ortigas, Mandaluyong City, Mandal...	121.057508	14.584450	Japanese, Korean	...	Botswana Pula(P)	Yes	No	No	No	4	4.8	Dark Green

5 rows × 21 columns

```python
df['Votes'] = pd.to_numeric(df['Votes'], errors='coerce')

df = df.dropna(subset=['Votes', 'Aggregate rating'])
```

```python
highest_votes = df.loc[df['Votes'].idxmax()]
print("🏆 Restaurant with Highest Votes:")
print(highest_votes[['Restaurant Name', 'Votes', 'Aggregate rating']])
```

```python
df_positive_votes = df[df['Votes'] > 0].copy()
```

```
min_votes_index = df_positive_votes['Votes'].idxmin()


lowest_votes = df_positive_votes.loc[min_votes_index]

print("\n ▼ Restaurant with Lowest Non-Zero Votes:")
print(lowest_votes[['Restaurant Name', 'Votes', 'Aggregate rating']])
```
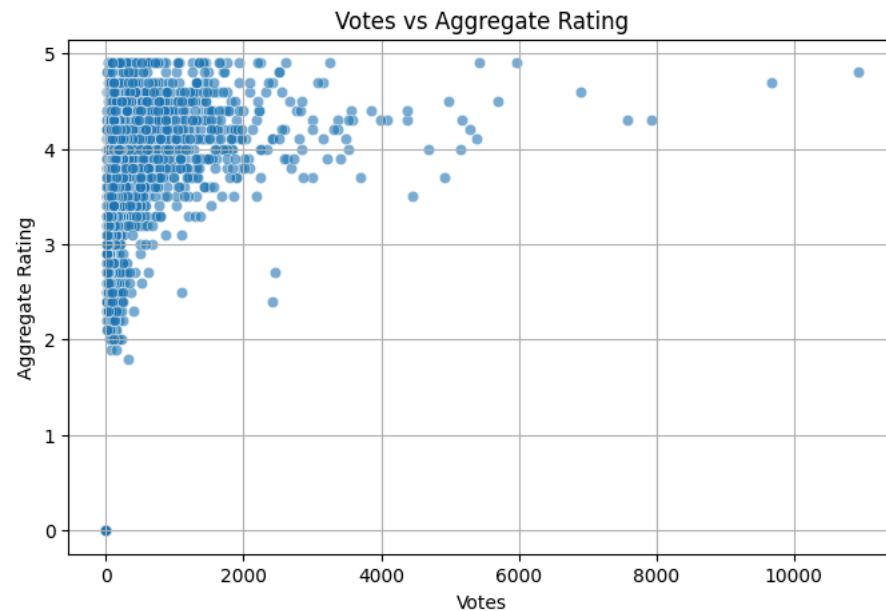
```
🏆 Restaurant with Highest Votes:
Restaurant Name      Toit
Votes                10934
Aggregate rating     4.8
Name: 728, dtype: object

    ▼ Restaurant with Lowest Non-Zero Votes:
Restaurant Name      Quiosque Chopp Brahma
Votes                                    1
Aggregate rating                       0.0
Name: 58, dtype: object
```

```
plt.figure(figsize=(8,5))
sns.scatterplot(data=df, x='Votes', y='Aggregate rating', alpha=0.6)
plt.title('Votes vs Aggregate Rating')
plt.xlabel('Votes')
plt.ylabel('Aggregate Rating')
plt.grid(True)
plt.show()
```

```python
correlation = df['Votes'].corr(df['Aggregate rating'])
print(f"\n📊 Correlation between Votes and Aggregate Rating: {correlation:.2f}")
```

📊 Correlation between Votes and Aggregate Rating: 0.31


```python
#Observation and Summary

#Highest Voted Restaurant
#Name: Toit  Votes: 10,934
#Aggregate Rating:   4.8
#This restaurant has very high user engagement and a top-tier rating.
#Lowest Non-Zero Voted Restaurant
#Name: Quiosque Chopp Brahma  Votes: 1
#Aggregate Rating: 0.0
#This restaurant has very low visibility or interaction.


#Interpretation:
#A correlation of 0.31 indicates a moderate positive relationship.
```