

Task: Restaurant Ratings

2.1.1 Analyze the distribution of aggregate ratings and determine the most common rating range.

```
In [4]: import pandas as pd
dt = pd.read_csv(r"C:\Users\HP\OneDrive\Documents\Cognifyz Internship Program\Dataset.cs
dt
```

Out [4]:

	Restaurant ID	Restaurant Name	Country Code	City	Address	Locality	Locality Verbose	Longitude
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...	121.02
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...	121.01
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...	121.05
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...	121.05
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...	121.05
...
9546	5915730	Namlı Gurme	208	İstanbul	Kemankeş Karamustafa Paşası Mahallesi, Rıhtım ...	Karaköy	Karaköy, İstanbul	28.97
9547	5908749	Ceviz Aca	208	İstanbul	Koşuyolu Mahallesi, Muhittin İsmet Paşa Caddesi	Koşuyolu	Koşuyolu, İstanbul	29.04
9548	5915807	Huqqa	208	İstanbul	Kuruçeşme Mahallesi, Muallim Naci Caddesi, N...	Kuruçeşme	Kuruçeşme, İstanbul	29.03
9549	5916112	Ak Kahve	208	İstanbul	Kuruçeşme Mahallesi, Muallim Naci Caddesi, N...	Kuruçeşme	Kuruçeşme, İstanbul	29.03
9550	5927402	Walter's Coffee Roastery	208	İstanbul	Cafea Mahallesi, Bademaltı Sokak, No 21/B, ...	Moda	Moda, İstanbul	29.02

9551 rows × 21 columns

```
In [5]: bins = [1, 2, 3, 4, 5]

In [6]: names = ['<2', '2-3', '3-4', '4-5']

In [7]: ratings_dist = pd.cut(dt['Aggregate rating'], bins=bins, labels=names)

In [8]: ratings_dist
```

```

Out[8]:
0      4-5
1      4-5
2      4-5
3      4-5
4      4-5
...
9546   4-5
9547   4-5
9548   3-4
9549   3-4
9550   3-4
Name: Aggregate rating, Length: 9551, dtype: category
Categories (4, object): ['<2' < '2-3' < '3-4' < '4-5']

```

```
In [9]: ratings_dist = ratings_dist.value_counts()
```

```
In [10]: ratings_dist
```

```

Out[10]:
3-4    4388
2-3    1891
4-5    1114
<2         10
Name: Aggregate rating, dtype: int64

```

```
In [11]: most_common = ratings_dist.index[0]
```

```
In [12]: most_common
```

```
Out[12]: '3-4'
```

2.1.2 Calculate the average number of votes received by restaurants.

```
In [14]: # Calculate the average 'votes'
avg_votes = dt['Votes'].mean()
```

```
In [15]: avg_votes
```

```
Out[15]: 156.909747670401
```

```
In [16]: print("Average number of votes per restaurant: ", avg_votes)
```

```
Average number of votes per restaurant: 156.909747670401
```

```
In [ ]:
```