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## Task 1

## **Task: Restaurant Ratings**

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

```
In [1]: # import library
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sb

In [2]: df=pd.read_csv("C:\\Users\\abhis\\Downloads\\Dataset .csv")
df
```

Out[2]:

	Restaurant ID	Restaurant Name	Country Code	City	Address	Locality	Locality Verbose
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.
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
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 Mandaluyonç City, Ma
3	6318506	Ooma	162	Mandaluyong City	Third Floor, Mega Fashion Hall, SM Megamall, O	SM Megamall, Ortigas, Mandaluyong City	SM Megamall Ortigas Mandaluyonç City, Mandal
4	6314302	Sambo Kojin	162	Mandaluyong City	Third Floor, Mega Atrium, SM Megamall, Ortigas	SM Megamall, Ortigas, Mandaluyong City	SM Megamall Ortigas Mandaluyonç City, Mandal
•••							
9546	5915730	Namll Gurme	208	<b>� �</b> stanbul	Kemanke�� Karamustafa Pa��a Mahallesi, Rìhtìm	Karak <b>∳</b> _y	Karak�_y ��stanbu
9547	5908749	Ceviz A��acl	208	<b>� �</b> stanbul	Ko��uyolu Mahallesi, Muhittin ��st�_nda�� Cadd	Ko��uyolu	Ko��uyolu ��stanbu
9548	5915807	Huqqa	208	<b>� �</b> stanbul	Kuru�_e��me Mahallesi, Muallim Naci Caddesi, N	Kuru�_e��me	Kuru�_e��me ��stanbu
9549	5916112	A���k Kahve	208	<b>��</b> stanbul	Kuru�_e��me Mahallesi, Muallim Naci Caddesi, N	Kuru�_e��me	Kuru�_e��me ��stanbu
9550	5927402	Walter's Coffee Roastery	208	<b>�</b> �stanbul	Cafea��a Mahallesi, Bademaltl Sokak, No 21/B, 	Moda	Moda ��stanbu

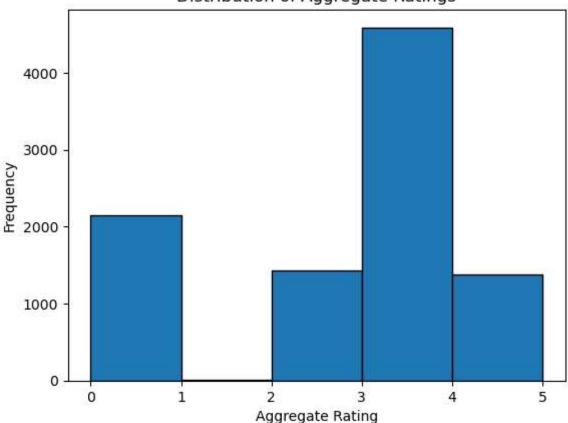
9551 rows × 21 columns

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```
df.isnull().sum()
 In [3]:
          Restaurant ID
                                   0
 Out[3]:
          Restaurant Name
                                   0
                                   0
          Country Code
          City
                                   0
          Address
                                   0
          Locality
                                   0
          Locality Verbose
          Longitude
                                   0
          Latitude
                                   0
          Cuisines
                                   9
          Average Cost for two
                                   0
          Currency
                                   0
         Has Table booking
                                   0
         Has Online delivery
                                   0
          Is delivering now
                                   0
          Switch to order menu
                                   0
          Price range
                                   0
         Aggregate rating
                                   0
          Rating color
                                   0
          Rating text
                                   0
          Votes
                                   0
          dtype: int64
          agg=df['Aggregate rating']
In [25]:
          agg
                  4.8
Out[25]:
                  4.5
          1
          2
                  4.4
                  4.9
          3
                  4.8
                 . . .
          9546
                  4.1
          9547
                  4.2
          9548
                  3.7
                  4.0
          9549
          9550
                  4.0
         Name: Aggregate rating, Length: 9551, dtype: float64
In [45]:
          agg.value_counts().head(1)
                 2148
Out[45]:
         Name: Aggregate rating, dtype: int64
          plt.hist(x=agg,edgecolor='k',bins=[0,1,2,3,4,5])
In [43]:
          plt.xticks(range(0,6,1))
          plt.xlabel('Aggregate Rating')
          plt.ylabel('Frequency')
          plt.title('Distribution of Aggregate Ratings')
          plt.show()
```

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## Distribution of Aggregate Ratings



## Calculate the average number of votes received by restaurants.

```
df.Votes.mean()
In [41]:
         156.909747670401
Out[41]:
In [42]:
          votes_rest=df.groupby(by='Votes')['Restaurant Name'].sum()
          votes_rest
         Votes
Out[42]:
                   Cantinho da GulaThe ChaiwalasFusion Food Corne...
                   Quiosque Chopp BrahmaNosh MahalAggarwal Sweet ...
          1
                   Sandubas Caf��Divino Fog��oSuper GrillFrick's ...
          3
                   Los AgavesKashyap Vaishno DhabaTotal Food Cour...
                   Desire FoodsSnax PointsCafe And MoreBaskin Rob...
         6907
                                           AB's - Absolute Barbecues
          7574
                                                            Peter Cat
         7931
                                                    Hauz Khas Social
         9667
                                                             Truffles
                                                                 Toit
         Name: Restaurant Name, Length: 1012, dtype: object
 In [ ]:
```