**Objective Questions**:

1. What is the total number of tables present in the data?

- Answer : There are 2 tables .

- Explanation : The dataset consists of two distinct sheets: "Raw Data" and "Country Description," each serving as a separate table with unique data entries.

2. What is the total number of attributes present in the data?

- Answer : There are 22 attributes .

- Explanation : The "Raw Data" sheet contains 20 columns, while the "Country Description" sheet contains 2 columns. The term "attributes" refers to the columns or fields in these tables.

3. How many categorical columns are there in the data? [Search about categorical and continuous data, and try to answer this question]

- Answer : There are 13 categorical columns .

- Explanation : Categorical columns contain discrete values or categories. The dataset includes columns like `City`, `Cuisines`, `Currency`, `Has\_Table\_booking`, and `Has\_Online\_delivery` among others, which are categorical because they describe qualities or categories rather than numerical values.

4. The data consists of some inconsistent and missing values, so ensure that the data used for further analysis is cleaned.

- Answer : The missing values were identified and handled appropriately.

- Explanation : For instance, missing entries in the `Cuisines` column were filled with "Not Available." Inconsistent data types and entries were corrected to ensure data integrity for further analysis.

5. Using the LookUp functions, fill up the countries in the original data using the country code.

- Answer : Country names were filled using the `CountryCode` field.

- Explanation : The `CountryCode` from the "Raw Data" sheet was mapped to the corresponding `CountryName` from the "Country Description" sheet using lookup functions. This allowed the filling of the `CountryName` column in the main data.

6. Create a table to represent the number of restaurants opened in each country.

- Answer : A table was created showing the count of restaurants per country.

- Explanation : The data was grouped by `CountryName`, and the number of unique `RestaurantID`s was counted for each country, providing a clear representation of restaurant distribution by country.

7. The management wants to look at the number of restaurants opened each year, so provide them with something here.

- Answer : A table showing the number of restaurants opened each year was provided.

- Explanation : The `Datekey\_Opening` column was used to extract the year of opening. The data was then grouped by year, and the number of restaurants opened each year was counted.

8. What is the total number of restaurants in India in the price range of 4?

- Answer : There are 388 restaurants in India with a price range of 4.

- Explanation : This was determined by filtering the dataset to include only those restaurants where `CountryCode = 1` (India) and `Price\_range = 4`, and then counting the entries.

9. What is the average number of voters for the restaurants in each country according to the data?

- Answer : The average number of voters varies by country, e.g., India has an average of 137.21 voters per restaurant.

- Explanation : The average was calculated by grouping the data by `CountryName` and then computing the mean of the `Votes` for each group.

10. Calculate the average rating for all the restaurants that have price\_range < 4 and provide online delivery. Use only the “IF” function, Logical Operators, and Aggregation functions to solve this problem. [Note: Don’t use Conditional aggregation in this question.]

- Answer : The average rating is 2.70 .

- Explanation : This was computed by filtering the data for restaurants with `Price\_range < 4` and `Has\_Online\_delivery` set to 'Yes'. The `IF` function and logical operators were used to select these criteria, and then the average of the `Aggregate` function was used to find the mean rating.

11. Using Conditional formatting highlight the rows of restaurants that are located in the countries or cities that you’ve suggested to the management for opening new restaurants.

- Answer : Conditional formatting was applied to highlight the specified rows.

- Explanation : Specific conditions, such as particular `CountryName` or `City` values, were set to highlight rows. This helps visually identify the data points that match the criteria for suggested new restaurant locations.

12. Create a new customized price column that consists of the abbreviation/symbol of the currency along with the Average\_cost\_for\_two value. [Use string operations to do this task]

- Answer : A new column named `Customized\_Price` was created.

- Explanation : This column was generated by concatenating the `Currency` abbreviation or symbol with the `Average\_Cost\_for\_two`. For instance, if the currency is "Indian Rupees (Rs.)" and the average cost for two is 300, the new column entry would be "Indian Rupees (Rs.) 300".

13. How can you create an array formula in Excel or Google Sheets to count the number of restaurants listed that do not offer online delivery, are in the lowest price range, and have an average cost for two people less than or equal to 250 Indian Rupees?

- Answer : An array formula using `COUNTIFS` or equivalent can be used.

- Explanation : The formula counts entries where `Has\_Online\_delivery = 'No'`, `Price\_range = 1`, and `Average\_Cost\_for\_two <= 250`. The function syntax in Excel could be: `=COUNTIFS(Has\_Online\_delivery\_range, "No", Price\_range\_range, 1, Average\_Cost\_for\_two\_range, "<=250")`. This formula considers all the specified conditions to return the count of restaurants that match all criteria.