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# Data Analyst Capstone Project - Marketing (Excel + Tableau)
## Tools Used:
- Microsoft Excel (for Data Cleaning, Preparation, Basic Analysis)
- Tableau (for Visualization and Dashboarding)
## 1. Data Preparation in Excel
### Step 1: Load and Merge Datasets
- Import `data.xlsx_marketing.xlsx` and `Country-Code.xlsx_marketing.xlsx`.
- Use VLOOKUP or Power Query to merge on `Country Code` to bring in `Country Name`.
### Step 2: Data Cleaning
- Remove duplicate rows.
- Handle missing values in `Cuisines`, `Aggregate rating`, `Votes`, etc.
- Standardize Yes/No values in `Has Table booking` and `Has Online delivery`.
- Convert categorical fields into readable format (e.g., 1 = Yes, 0 = No).
### Step 3: Feature Engineering
- Add a column `Cuisine Count` = COUNT of cuisines by splitting the `Cuisines` column
using delimiter ",".
- Create a new column `Star Restaurant` where:
    =IF(AND([Aggregate rating]>=4.2,[Votes]>=100), "Yes", "No")
### Step 4: Save Cleaned Data
- Export the final cleaned data to `cleaned data.xlsx` for Tableau use.
## 2. Visualization in Tableau
### Step 1: Load Data
- Connect Tableau to `cleaned_data.xlsx`.
### Step 2: Create Visuals
#### Scatter Plot - Votes vs Aggregate Rating
- X-Axis: Votes
- Y-Axis: Aggregate Rating
- Size: Cuisine Count
- Color: Price Range
- Tooltip: Restaurant Name
- Insight: Identify star restaurants in the top-right
#### Highlight Table - Top 10 Star Restaurants
- Apply Filters: Votes >= 100, Rating >= 4.2
- Columns: Restaurant Name, City, Rating, Votes, Price Range, Cuisine Count, Delivery,
Table Booking
- Sort by: Aggregate Rating (descending)
- Use color shading for highlight effect
#### Bar Charts
- Price Range vs Average Rating
- Online Delivery vs Average Rating
- Table Booking vs Average Rating
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## #### Heatmap

- Cuisine vs City with Average Rating

## ### Step 3: Dashboard

- Combine all visuals into one dashboard.
- Add filters (Country, City, Price Range).
- Highlight KPIs: Total Votes, Avg Rating, Total Star Restaurants.

## ### Step 4: Publish or Export

- Save and export the dashboard as PDF or publish to Tableau Public.