

## Final Project 2: Restaurant Ratings Analysis (India)

### Project Objective

You are required to **prepare a complete Restaurant Ratings Analysis project for INDIA**, similar to the demo project shown in this attachment (Mexico dataset).

 **This time, you must NOT use the provided dataset.**

 You must **collect, prepare, and analyze Indian restaurant data on your own.**

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### Data Collection (MANDATORY)

You must **collect data using Google Search / Google Maps / Zomato / Swiggy / Dineout.**

### How to collect data

Search examples:

- “Best restaurants in Pune”
- “Top rated restaurants in Mumbai”
- “Veg restaurants in Bengaluru”
- “Restaurants with parking in Delhi”

From Google / platforms, collect:

- Restaurant name
  - City & State (India only)
  - Cuisine type
  - Price range
  - Alcohol availability
  - Parking availability
  - Ratings (can be manual / simulated)
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### Dataset Structure (FOLLOW THIS)

You must create **at least 5 tables** similar to the demo project.

#### 1 Consumers

- Consumer\_ID
- City
- State
- Age

- Gender
- Occupation (Student / Employed / Business)
- Marital\_Status
- Smoker (Yes/No)
- Drink\_Level (Non / Casual / Social)
- Budget\_Level (Low / Medium / High)
- Transport\_Mode

👉 Consumers data can be **survey-based or simulated**, but must look realistic.

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## 2 Consumer\_Preferences

- Consumer\_ID
  - Preferred\_Cuisine (Indian, Chinese, South Indian, Street Food, etc.)
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## 3 Restaurants

- Restaurant\_ID
  - Restaurant\_Name
  - City
  - State
  - Country (India)
  - Price\_Range (Low / Medium / High)
  - Pure\_Veg (Yes/No)
  - Alcohol\_Served (No / Beer & Wine / Full Bar)
  - Parking (None / Public / Private / Valet)
  - Franchise (Yes/No)
  - Online\_Delivery (Yes/No)
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## 4 Ratings

- Consumer\_ID
- Restaurant\_ID
- Overall\_Rating (1–5)
- Food\_Rating (1–5)

- Service\_Rating (1–5)
  - Value\_for\_Money (1–5)
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## 5 Restaurant\_Cuisines

- Restaurant\_ID
  - Cuisine\_Type
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## ✍ Data Cleaning (COMPULSORY)

You must perform:

- Remove duplicates
  - Handle missing values
  - Standardize city/state names
  - Correct data types
  - Create relationships between tables
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## 🔢 Calculated Columns (Power BI / DAX)

You must create at least:

### Age Group

```
AgeGroup =  
SWITCH(  
    TRUE(),  
    consumers[Age] <= 18, "Children & Adolescents",  
    consumers[Age] <= 30, "Young Adults",  
    consumers[Age] <= 45, "Adults",  
    consumers[Age] <= 60, "Middle-aged Adults",  
    "Seniors"  
)
```

### Rating Category

```
Overall_Rating_Category =  
SWITCH(
```

```
TRUE(),  
ratings[Overall_Rating] <= 2, "Low",  
ratings[Overall_Rating] = 3, "Medium",  
"High"  
)
```

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## **Analysis Questions (YOU MUST ANSWER)**

### **Local Insights**

- Which Indian city has the most consumers?
- Age distribution by city/state
- Smoker vs non-smoker analysis
- Transport method usage

### **Restaurant Insights**

- Restaurants count by city/state
- Price range vs ratings
- Franchise vs non-franchise comparison
- Parking availability analysis

### **Cuisine Insights**

- Most preferred cuisine in India
- Cuisine preference by age group
- Cuisine vs ratings

### **Service & Quality**

- Food vs Service rating comparison
- Impact of alcohol service on ratings
- Value for money analysis

### **Top Restaurants**

- Top 5 restaurants by Overall Rating
  - Top 5 by Food Rating
  - Top 5 by Service Rating
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## Dashboard Requirements (MINIMUM)

You must create **at least 3 dashboard pages**:

### **Page 1 – Consumer Analysis**

- City-wise consumers
- Age groups
- Drink & smoking habits

### **Page 2 – Restaurant Analysis**

- Price range
- Parking & alcohol availability
- Franchise analysis

### **Page 3 – Ratings & Cuisines**

- Top restaurants
  - Cuisine popularity
  - Rating comparison
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## Submission Checklist

You must submit:

- Raw collected data (Excel / CSV)
  - Cleaned dataset
  - Power BI file (.pbix)
  - Project report (PDF / Word)
  - Dashboard screenshots
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## Important Rules

- No Mexico / foreign data
  - No copied datasets
  - Only Indian restaurants
  - Minimum 5 Indian cities
  - Data must look realistic
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👉 **This project will be evaluated for:**

- Data collection effort
  - Data modeling
  - Cleaning logic
  - Analysis quality
  - Dashboard clarity
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