**Overview**

This report provides a comprehensive analysis of the restaurant dataset comprising multiple data processing and visualisation tasks. It includes country mappings, restaurant reviews, service availability, and various analytics-ready summaries that support business decisions.

# Worksheet: zomato

This is the raw dataset containing global restaurant listings sourced from Zomato. Key fields include:

* **Location**: City, Country Code, Address
* **Cuisine & Pricing**: Cuisines, Average Cost for Two, Currency
* **Services**: Has Table Booking, Online Delivery
* **Ratings**: Aggregate Rating, Rating Text, Rating Color, Votes

✨ **Key Observations:**

* Data contains both numeric and categorical features suitable for profiling and segmentation.
* Requires mapping of Country Code to country names (handled in another sheet).

## Worksheet: CountryCode

Maps Country Code to country names for readability.

|  |  |
| --- | --- |
| **Country Code** | **Country** |
| 1 | India |
| 14 | Australia |
| ... | ... |

This sheet is used to enrich other datasets (like zomato or CleanedData\_Task1) with country names for geolocation analysis and summaries.

**Worksheet: CleanedData\_Task1**

This is a cleaned and enriched version of the zomato sheet. Major enhancement includes:

* Added **Restaurant Name**
* Cleaned or standardized columns for better reporting
* Prepared for downstream tasks like VLOOKUP, INDEX-MATCH, pivot tables, and dashboarding.

**Benefits:**

* Cleaner structure
* Usable directly for analytics or visualization
* Ready for merging with country mappings

**Worksheet: Task2\_SummaryOnRating**

This sheet appears to contain aggregated or summarized rating-related data. However, the column names are missing (Unnamed), which limits direct interpretation.

🔍 **Recommendation:**

* **Rename Columns:** Apply meaningful headers (e.g., City, Rating Category, Rating Value, Count).
* **Potential Use:** Can be used to plot rating distributions across cities or cuisines.

**Worksheet: Task3\_Vlookup**

Summarises service availability (Table Booking and Online Booking) across different cities using VLOOKUP logic.

**Key Columns:**

* City
* Has Table Booking / Summary for Table Booking
* Has Online Booking / Summary for Online Booking

**Insights:**

* Enables city-level service planning.
* Identifies which cities lack certain services.

**Recommendation:**

Create a **bar chart** showing:

* % of cities offering Table Booking
* % of cities offering Online Delivery

**Worksheet: Task4\_MapCountryNames**

An extended version of the cleaned dataset with **mapped country names**.

**Additions:**

* Country Name mapped from Country Code
* Ready for geospatial analysis or filtering by region

**Use Case:**

* Dashboards
* Heatmaps by country
* Market expansion insights

**Task5\_IndexMatch**

Used for **INDEX-MATCH** analysis, but most columns are unnamed (Unnamed). Appears to be:

* A test or intermediate result of matching cities/countries with attributes like cuisines or ratings.

**Recommendation:**

* Clarify column names
* Finalise INDEX-MATCH formulas for documentation or educational showcase

\* Unable to perform the exact function but managed some other approach

**Task6: Pivot by Ratings**

* **Type:** Pivot Table
* **Purpose:** Counts restaurants across different rating values.
* **Structure:**
  + Row Labels: Most likely countries or cities (cut off in preview).
  + Column Labels: Rating values (e.g., 1, 2, 3, …).
* **Insights:** This sheet aims to show **rating distribution** per category (likely city or country) — a heatmap or stacked bar chart could be generated from this.

**Task7: Heatmap**

* **Insights:**
  + Useful for **geographic performance comparison**.
  + You can visualize this with conditional formatting or a color-coded heatmap in Excel or Power BI.

\* HeatMap charts was not available on the excel installed and hence used some other charts to complete the task.

**Task8: Comparison by Service Type**

* **Insights:**
  + Helps compare how different service types (e.g., "Only Delivery" vs "Both Services") influence ratings and engagement (votes).
  + Example Use Case: Determine if offering both services leads to better customer feedback.

**Task9: What-If Analysis**

**Insights:**

* + Basis for **scenario modeling** or **dynamic inputs** in a What-If analysis.
  + Could be used for simulations: "What happens to ratings if average cost is reduced?

**Task10: Sparklines**

**Insights:**

* + Tracks **trend visualization** for each restaurant over time or by variable.
  + Ideal for embedding mini-charts inside Excel to show performance trends per restaurant.

**Dashboard**

**Insights:**

* + Acts as the **central hub** for KPIs and visual outputs.
  + Currently includes title and spacing; visuals seem to be inserted dynamically via charts or linked pivot data.