

Zomato Restaurant Analysis – Power BI Project Report (with Example-based Analysis)

Project Objective

The objective of this project was to build a **consolidated and interactive Power BI report** for Zomato that enables users to analyze restaurant data across continents, countries, and cities. The report supports **global-level insights as well as city-level detailed analysis**, with filtering options and easy navigation, accessible on web and mobile devices.

Data Used

The report is built using multiple Excel files provided for different regions:

- Africa, Asia, Europe, North America, South America, Oceania
- Country Code table
- Fact table containing restaurant details such as ratings, cost, cuisines, location, and services

All files were imported and consolidated into Power BI.

Data Preparation & Modeling

- City names were cleaned and standardized.
- Unused columns were removed.
- Restaurant Name and Address were separated into individual fields.

- A separate cuisine structure was created to calculate cuisine count.
 - A proper data model was created with fact and dimension tables.
 - A **geographical hierarchy (Continent → Country → City)** was created to enable drill-down analysis.
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Measures Created

The following measures were created using DAX:

- Restaurant Count
- Average Rating
- Average Cost for Two
- Cuisine Count

These measures dynamically respond to user selections.

Analysis & Outputs (Mapped to Client Requirements)

1. Total Number of Restaurants

The dashboard displays the **total restaurant count (9,551)** using a KPI card.

Using the map visual, users can view restaurant distribution across continents and drill down to countries and cities.

2. Global to Granular Analysis (Example)

From the global map, when the user selects **Asia → India → Pune**:

- The tooltip shows:

- Continent: Asia
- Country: India
- City: Pune
- Restaurant Count: 20
- All KPIs (Restaurant Count, Average Rating, Average Cost for Two) update automatically.
- The chart below displays **top restaurants in Pune** based on average rating.

This confirms that the report supports **global view with granular city-level analysis**.

3. Top Performing Restaurants by Average Rating

The visual “**Average Rating by Restaurant**” displays the top restaurants based on customer ratings.

For example, when **Bangalore** is selected:

- Restaurants like *Big Brewsky* and *ECHOES Koramangala* appear with high ratings.
 - The **Average Rating gauge** shows **4.70** for the selected restaurant.
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4. Top Performing Restaurants by Least Average Cost

The **Average Cost for Two** KPI and gauge display cost-related performance.

For example, when **Big Brewsky (Bangalore)** is selected:

- Average Cost for Two = **950**
This helps identify restaurants offering good value at city level.
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5. Filtering & Restaurant Details

The report allows filtering based on:

- Geography: Country (India), City (Bangalore)
- Services: Online delivery, Table booking
- Rating Color: Dark Green (high-rated restaurants)

Based on filters, the report displays:

- Restaurant address (e.g., Koramangala, Bangalore)
 - Average Rating
 - Average Cost for Two
 - List of cuisines served
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6. Top Restaurants by Number of Cuisines

A **treemap visual** shows restaurants ranked by **count of cuisines served**.

For example:

- *Big Brewsky* shows **6 cuisines**, making it one of the top-ranked restaurants in terms of cuisine variety.
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7. Multi-page Report & Navigation

The report is designed as a **multi-page dashboard**:

- World Wide Analysis
- Restaurant Analysis

Navigation buttons are provided to move easily between pages.

The report follows **Zomato's theme** for consistent design.

8. Web & Mobile Access

- The report is published to **Power BI Service** and accessible via web browser.
 - A **mobile-optimized view** is created to ensure proper visualization on phone devices.
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Conclusion

The Power BI report successfully meets all client requirements. It provides interactive, example-driven analysis at global and city levels, supports advanced filtering, highlights top-performing restaurants, and is accessible across web and mobile platforms. The outputs shown in the report directly correspond to the visuals and examples demonstrated in the attached screenshots.
