Restaurant Orders Dashboard - Power BI Project

Overview:

Designed and developed an **interactive Power BI dashboard** to analyze restaurant sales, customer demographics, and ordering patterns, enabling data-driven decision-making for business growth.

1. Data Collection & Import

- Gathered multiple datasets: restaurant details, menu items, orders, order types, and customer profiles.
- Imported Excel datasets into Power BI.

2. Data Cleaning & Transformation (Power Query)

- Removed duplicates, handled missing values, and standardized formats.
- Split/merged columns (e.g., extracted date & time, standardized category names).
- Created calculated columns such as **Total = Quantity** × **Price**.
- Applied correct data types and prepared data for modeling.

3. Data Modeling

- Built a **star schema** with fact tables (Orders) and dimension tables (Restaurants, Menu, Users, Order Types, Date).
- Created and marked a Date Table for time-based analysis.
- Applied one-to-many relationships, avoiding circular/many-to-many joins.

4. DAX Measures

- Developed KPIs:
 - o Total Sales
 - Order Count
 - Average Order Value
 - **o** % Repeat Customers
- Created demographic and cuisine segmentation measures.

5. Dashboard Design & Visualization

- Designed an interactive layout with KPI cards, bar charts, treemaps, line charts, maps, and demographic visuals.
- Key visuals:
 - o Top 10 Restaurants by Revenue
 - o Revenue by Month
 - o Top 5 Cuisines by Revenue
 - o Orders & Restaurants by City

- o Gender Split & Occupation-wise Revenue
- o Veg vs Non-Veg Sales Share
- Added slicers for city, restaurant, cuisine, and order type.

6. Insights

- **Domino's Pizza** emerged as the top-performing brand.
- **Bikaner** had the highest orders and number of restaurants.
- Students were the largest revenue-generating group.
- Veg and Non-Veg demand were nearly equal.
- Identified seasonal trends and sales dips.

7. Final Output

- Delivered a clean, interactive Power BI dashboard ready for stakeholder presentation.
- Summarized insights into an actionable business narrative.