# **Restaurant Revenue and Popularity Analysis**

#### **Research Questions**

- 1. What restaurants are the most popular?
- 2. Which restaurants generate the highest revenue, and why?

### **Hypotheses**

- **Cuisine Type & Popularity**: The type of cuisine a restaurant offers (from the cuisine column) is associated with its popularity, as measured by rating metrics.
- **Pricing & Popularity**: A restaurant's pricing (from the cost column) may influence its popularity, observable through higher ratings or review counts.
- Sales Volume & Revenue: The number of items sold (from the sales quantity in the orders dataset) serves as a strong indicator of revenue, with higher volumes suggesting more frequent customer activity.
- Cuisine Variety & Popularity: Restaurants that offer a wider variety of cuisines may be
  more popular. Popularity will be evaluated using the rating columns, while cuisine
  diversity will be measured by the number of unique cuisines listed.

## **Key Performance Indicators (KPIs)**

- Average restaurant rating
- Sales quantity
- Number of cuisines offered per restaurant

#### **Visualizations**

- Scatter Plot: Average Restaurant charges with popularity.
- **Bar Chart**: Average restaurant ratings w/Cuisines to investigate the popularity of certain cuisines.

• Scatter Plot: Relationship between popularity and quantity of cuisines served

### **Data Preparation**

- Cleaned both **Restaurant** and **Orders** datasets:
  - o Addressed missing data
  - o Created calculated columns to improve data clarity and usability
- Data was joined using restaurant\_ID in **Tableau** to merge information from both datasets for visualization and analysis.