# Online Food Delivery System

### Scenario

You are building a database for an online food delivery platform similar to **Swiggy** or **Zomato**.

The platform manages:

- Restaurants and their menus
- Customers and their orders
- · Delivery drivers
- Ratings and reviews
- Payments and delivery times

This system will help management:

- Track performance of restaurants
- Identify customer purchase patterns
- Monitor delivery performance
- · Improve marketing campaigns

# **Suggested Tables**

#### 1. Restaurants

- restaurant\_id (PK)
- o name
- city
- cuisine\_type
- o rating (avg rating from reviews)

#### 2. Menu

- menu\_id (PK)
- restaurant\_id (FK)
- dish\_name
- o price
- o category (Main Course, Dessert, Beverage, etc.)

#### 3. Customers

- customer\_id (PK)
- o name
- o phone
- o city
- o join date

#### 4. Orders

order\_id (PK)

- customer id (FK)
- restaurant id (FK)
- o order date
- delivery time minutes
- driver\_id (FK)
- o payment mode (UPI, Card, Cash)

#### 5. Order Details

- order\_detail\_id (PK)
- order\_id (FK)
- menu\_id (FK)
- quantity

#### 6. **Drivers**

- driver\_id (PK)
- o name
- o phone
- vehicle\_type
- o join\_date

#### 7. Reviews

- review\_id (PK)
- order\_id (FK)
- customer\_id (FK)
- restaurant\_id (FK)
- rating (1–5)
- review\_text

#### **Business Problems**

## **Customer & Order Insights**

- 1. List the top 3 most-ordered dishes in each city.
- 2. Find customers who spent more than ₹5000 in the last month.
- 3. Identify customers who placed orders from more than 5 different restaurants.
- 4. Show repeat customers (placed more than 3 orders in the last 2 months).
- 5. List customers who have **never given a review**.

#### **Restaurant Performance**

- 6. Find the restaurant with the **highest number of orders** in the last quarter.
- 7. List restaurants whose average rating is below 3.5.
- 8. Identify the **most popular cuisine type** across all cities.
- 9. Calculate total revenue for each restaurant in the last month.
- 10. Find restaurants that have at least one dish priced above ₹1000.

# Delivery & Driver Efficiency

- 11. Calculate average delivery time by driver.
- 12. Identify the **fastest driver** in terms of average delivery time.
- 13. Find the percentage of late deliveries (e.g., >40 minutes) per driver.

### Menu & Order Details

- 14. List dishes that were **never ordered** in the last 6 months.
- 15. For each restaurant, find the **most profitable dish** (highest total sales amount).