

### Scenario:

You are hired as a database administrator to develop a **restaurant management system** for a company named **Waya Rest**. You are required to design and implement a relational database that manages restaurants, users, menu items, orders, and administrative operations.

1. Write an SQL query to create a database named WayaRestDB.
2. Create the following tables with appropriate constraints:

1. **admin Table:** Stores administrator details.

- adm\_id (Primary Key, Auto Increment)
- username (VARCHAR, Unique)
- password (VARCHAR, Should store hashed passwords)
- email (VARCHAR, Unique, Not Null)
- code (VARCHAR, Optional)
- date (TIMESTAMP, Default: Current Timestamp)

2. **dishes Table:** Stores details of available menu items.

- d\_id (Primary Key, Auto Increment)
- rs\_id (Foreign Key referencing restaurant.rs\_id)
- title (VARCHAR, Not Null)
- slogan (TEXT)
- price (DECIMAL)
- img (VARCHAR, Stores image filename)

3. **restaurant Table:** Stores restaurant branch information.

- rs\_id (Primary Key, Auto Increment)
- c\_id (Foreign Key referencing res\_category.c\_id)
- title (VARCHAR, Not Null)
- email (VARCHAR, Unique)
- phone (VARCHAR, Not Null)

- url (VARCHAR, Not Null)
  - o\_hr, c\_hr (VARCHAR, Opening and Closing hours)
  - o\_days (VARCHAR, Open days per week)
  - address (TEXT, Not Null)
  - image (TEXT, Stores image filename)
4. **res\_category Table:** Stores restaurant categories (e.g., Local, Chinese, Italian).
- c\_id (Primary Key, Auto Increment)
  - c\_name (VARCHAR, Unique, Not Null)
5. **users Table:** Stores customer details.
- u\_id (Primary Key, Auto Increment)
  - username (VARCHAR, Unique, Not Null)
  - f\_name, l\_name (VARCHAR, Not Null)
  - email (VARCHAR, Unique, Not Null)
  - phone (VARCHAR, Not Null)
  - password (VARCHAR, Should store hashed passwords)
  - address (TEXT, Not Null)
  - status (INT, Default: 1)
  - date (TIMESTAMP, Default: Current Timestamp)
6. **users\_orders Table:** Stores order details.
- o\_id (Primary Key, Auto Increment)
  - u\_id (Foreign Key referencing users.u\_id)
  - title (VARCHAR, Not Null)
  - quantity (INT, Not Null)
  - price (DECIMAL, Not Null)
  - status (VARCHAR, Default: NULL)
  - date (TIMESTAMP, Default: Current Timestamp)
3. Insert at least **2 admin users**.

4. Add **5 restaurant branches** with different categories.
5. Add at least **10 different dishes**.
6. Add **5 users**
7. Insert **5 sample orders** made by users.