



## **CSE Second Year**

### **Semester – 4**

## **Database Systems**

### **Lab 5**

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**Aim:** Create a database of restaurant.

#### **Requirements:**

1. MySQL [Software]

#### **Theory:**

The Restaurant Database

Restaurant Database allows users to buy food online. Users can log in using their e-mail. Users input info on their profile with name, last name, phone number, their address. Every user has a unique ID.

The restaurant staff consists of a cook, manager, courier, and system administrator. Cook prepares food, buy products and checks quality of the meal. The manager keeps order in the restaurant. The system administrator verifies the quality of working of the database and adds new products to the database. The courier delivers food to customers. User chooses meal, then this info comes to

the kitchen. Cook prepares food and gives it to courier. The courier delivers this food and gets paid.

**The Customer Table consists of:**

Customer\_ID \*-- A unique integer value for every user First\_Name--  
- Text that contains customer's first name.  
Last\_Name-- Text that contains customer's last name.  
Gender-- Text that contains customer's gender.  
Phone\_Number-- Text that contains customer's phone number.  
Street-- Text that contains customer's street address information.  
City-- Text that contains customer's city information.  
E-mail-- Text that contains customer's e-mail address.

**The Staff Table consists of:**

Staff\_ID \*-- A unique employee's ID  
First\_Name-- Text that contains employee's first name.  
Last\_Name-- Text that contains employee's last name.  
Gender-- Text that contains info about employee's gender. Position--  
Text that position of an employee.

**The Meal Table consists of:**

Meal\_ID \*-- A unique integer value that guarantees each meal has a unique ID.  
Name-- A short text name for the meal for use in reports.  
Description-- A longer text description for the meal to help the customer decide.  
Price-- A floating point representation for the price of the meal  
Prep\_Time-- An integer for the number of minutes the meal takes to prepare.

**The Meal\_Order Table consists of:**

Order\_ID \*-- An integer value that guarantees each order has a unique ID.  
Meal\_ID \*-- A unique integer value that guarantees each meal has a unique ID.  
Quantity-- An integer quantity of a specific meal on the order  
Payment\_-- An integer value for the order payment method and price  
Delivery Time-- An integer value for the time of the delivery

**Exercise**

- (a) List details of all Staff, alphabetically by name.
- (b) List the details of a meal by price.
- (c) List the details of meal ordered by one person.
- (d) List the clients registering.
- (e) List all orders with price over Rs.100.
- (f) Display details of Meal which takes more minutes to prepare the order.
- (g) Display the meal which have price more than Rs.300.

```
mysql> create database restaurent;
Query OK, 1 row affected (0.07 sec)
```

```
mysql> use restaurent;
Database changed
```

```
mysql> create table customer(
-> customerid int primary key,
-> firstname varchar(30),
-> lastname varchar(30),
-> gender varchar(10),
-> phonenumber varchar(12),
-> street varchar(30),
-> city varchar(15),
-> email varchar(30)
-> );
Query OK, 0 rows affected (0.09 sec)
```

```
mysql> create table staff(
-> staffid int primary key,
-> firstname varchar(30),
-> lastname varchar(30),
-> gender varchar(10),
-> position varchar(30)
-> );
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> create table meal(
-> mealid int primary key,
-> name varchar(30),
-> description varchar(100),
-> price int,
-> preptime TIME
-> );
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> create table mealorder(
-> orderid int primary key,
-> mealid int,
-> quantity int,
-> payment int,
-> deliverytime TIME
```

```
mysql> INSERT INTO customer
-> VALUES
-> (1, 'Neeraj', 'Chormale', 'Male', '9876543210', 'Main Street', 'Delhi', 'rahul@example.com'),
-> (2, 'Priya', 'Patel', 'Female', '9876543211', 'Park Avenue', 'Mumbai', 'priya@example.com'),
-> (3, 'Amit', 'Singh', 'Male', '9876543212', 'Gandhi Road', 'Kolkata', 'amit@example.com'),
-> (4, 'Deepika', 'Sharma', 'Female', '9876543213', 'Victoria Street', 'Bangalore', 'deepika@example.com'),
-> (5, 'Arjun', 'Yadav', 'Male', '9876543214', 'Mount Road', 'Chennai', 'arjun@example.com'),
-> (6, 'Anushka', 'Verma', 'Female', '9876543215', 'Broadway', 'Hyderabad', 'anushka@example.com'),
-> (7, 'Vikram', 'Rajput', 'Male', '9876543216', 'King Street', 'Ahmedabad', 'vikram@example.com'),
-> (8, 'Neha', 'Bose', 'Female', '9876543217', 'Queen Road', 'Pune', 'neha@example.com'),
-> (9, 'Raj', 'Gupta', 'Male', '9876543218', 'Market Street', 'Jaipur', 'raj@example.com'),
-> (10, 'Kavita', 'Kumar', 'Female', '9876543219', 'Sunset Boulevard', 'Lucknow', 'kavita@example.com');
Query OK, 10 rows affected (0.01 sec)
Records: 10 Duplicates: 0 Warnings: 0
```

```
mysql> INSERT INTO staff (staffid, firstname, lastname, gender, position)
-> VALUES
-> (1, 'Suresh', 'Kumar', 'Male', 'Chef'),
-> (2, 'Radha', 'Sharma', 'Female', 'Server'),
-> (3, 'Vikram', 'Singh', 'Male', 'Bartender'),
-> (4, 'Priya', 'Patil', 'Female', 'Manager'),
-> (5, 'Rahul', 'Yadav', 'Male', 'Waiter'),
-> (6, 'Meera', 'Gupta', 'Female', 'Cashier'),
-> (7, 'Amit', 'Verma', 'Male', 'Kitchen Staff'),
-> (8, 'Neha', 'Bose', 'Female', 'Hostess'),
-> (9, 'Raj', 'Shah', 'Male', 'Busser'),
-> (10, 'Kavita', 'Kumar', 'Female', 'Supervisor');
Query OK, 10 rows affected (0.01 sec)
Records: 10 Duplicates: 0 Warnings: 0
```

```
mysql> INSERT INTO meal (mealid, name, description, price, preptime)
-> VALUES
-> (1, 'Butter Chicken', 'Creamy tomato-based curry with tender chicken pieces', 200, '00:45:00'),
-> (2, 'Paneer Tikka Masala', 'Spicy paneer tikka in a rich and flavorful masala', 180, '00:40:00'),
-> (3, 'Biryani', 'Fragrant basmati rice with marinated meat and aromatic spices', 220, '01:00:00'),
-> (4, 'Masala Dosa', 'Thin rice crepes filled with spiced potato filling', 150, '00:30:00'),
-> (5, 'Chole Bhature', 'Chickpea curry with deep-fried bread', 160, '00:50:00'),
-> (6, 'Palak Paneer', 'Cottage cheese cubes in a creamy spinach sauce', 190, '00:35:00'),
-> (7, 'Tandoori Chicken', 'Marinated chicken cooked in a tandoor for a smoky flavor', 210, '00:45:00'),
-> (8, 'Aloo Paratha', 'Whole wheat bread stuffed with spiced mashed potatoes', 130, '00:25:00'),
-> (9, 'Chicken Curry', 'Classic Indian chicken curry with aromatic spices', 180, '00:50:00'),
-> (10, 'Rajma Chawal', 'Red kidney beans curry served with steamed rice', 160, '00:40:00');
Query OK, 10 rows affected (0.01 sec)
Records: 10 Duplicates: 0 Warnings: 0
```

```
mysql> INSERT INTO mealorder (orderid, mealid, quantity, payment, deliverytime)
-> VALUES
-> (1, 1, 2, 400, '12:30:00'),
-> (2, 3, 1, 220, '13:45:00'),
-> (3, 6, 3, 570, '19:15:00'),
-> (4, 8, 2, 260, '17:30:00'),
-> (5, 4, 1, 150, '14:00:00'),
-> (6, 7, 2, 420, '20:00:00'),
-> (7, 2, 1, 180, '18:45:00'),
-> (8, 9, 3, 540, '21:30:00'),
-> (9, 5, 2, 320, '15:20:00'),
-> (10, 10, 1, 160, '16:10:00');
Query OK, 10 rows affected (0.01 sec)
Records: 10 Duplicates: 0 Warnings: 0
```

```
mysql> |
```

```
mysql> ALTER TABLE mealorder ADD FOREIGN KEY (mealid) REFERENCES meal(mealid
);
Query OK, 10 rows affected (0.07 sec)
Records: 10 Duplicates: 0 Warnings: 0
```

```
mysql> select * from staff order by firstname ASC;
+-----+-----+-----+-----+-----+
| staffid | firstname | lastname | gender | position |
+-----+-----+-----+-----+-----+
| 7 | Amit | Verma | Male | Kitchen Staff |
| 10 | Kavita | Kumar | Female | Supervisor |
| 6 | Meera | Gupta | Female | Cashier |
| 8 | Neha | Bose | Female | Hostess |
| 4 | Priya | Patil | Female | Manager |
| 2 | Radha | Sharma | Female | Server |
| 5 | Rahul | Yadav | Male | Waiter |
| 9 | Raj | Shah | Male | Busser |
| 1 | Suresh | Kumar | Male | Chef |
| 3 | Vikram | Singh | Male | Bartender |
+-----+-----+-----+-----+-----+
```

```
10 rows in set (0.01 sec)
```

```
mysql> select mealid, name, price from meal order by price DESC;
+-----+-----+-----+
| mealid | name | price |
+-----+-----+-----+
| 3 | Biryani | 220 |
| 7 | Tandoori Chicken | 210 |
| 1 | Butter Chicken | 200 |
| 6 | Palak Paneer | 190 |
| 2 | Paneer Tikka Masala | 180 |
| 9 | Chicken Curry | 180 |
| 5 | Chole Bhature | 160 |
| 10 | Rajma Chawal | 160 |
| 4 | Masala Dosa | 150 |
| 8 | Aloo Paratha | 130 |
+-----+-----+-----+
```

```
10 rows in set (0.01 sec)
```

```
mysql> |
```

```
mysql> select * from customer where customerid = 1;
```

customerid	firstname	lastname	gender	phonenumber	street	city	email
1	Neeraj	Chormale	Male	9876543210	Main Street	Delhi	rahul@example.com

```
1 row in set (0.01 sec)
```

```
mysql> select * from customer;
```

customerid	firstname	lastname	gender	phonenumber	street	city	email
1	Neeraj	Chormale	Male	9876543210	Main Street	Delhi	rahul@example.com
2	Priya	Patel	Female	9876543211	Park Avenue	Mumbai	priya@example.com
3	Amit	Singh	Male	9876543212	Gandhi Road	Kolkata	amit@example.com
4	Deepika	Sharma	Female	9876543213	Victoria Street	Bangalore	deepika@example.com
5	Arjun	Yadav	Male	9876543214	Mount Road	Chennai	arjun@example.com
6	Anushka	Verma	Female	9876543215	Broadway	Hyderabad	anushka@example.com
7	Vikram	Rajput	Male	9876543216	King Street	Ahmedabad	vikram@example.com
8	Neha	Bose	Female	9876543217	Queen Road	Pune	neha@example.com
9	Raj	Gupta	Male	9876543218	Market Street	Jaipur	raj@example.com
10	Kavita	Kumar	Female	9876543219	Sunset Boulevard	Lucknow	kavita@example.com

```
10 rows in set (0.00 sec)
```

```
mysql> select name, price from meal where price > 100 order by price ASC;
```

name	price
Aloo Paratha	130
Masala Dosa	150
Chole Bhature	160
Rajma Chawal	160
Paneer Tikka Masala	180
Chicken Curry	180
Palak Paneer	190
Butter Chicken	200
Tandoori Chicken	210
Biryani	220

```
10 rows in set (0.01 sec)
```

```
mysql> select * from meal order by preptime DESC;
```

mealid	name	description	price	preptime
3	Biryani	Fragrant basmati rice with marinated meat and aromatic spices	220	01:00:00
5	Chole Bhature	Chickpea curry with deep-fried bread	160	00:50:00
9	Chicken Curry	Classic Indian chicken curry with aromatic spices	180	00:50:00
1	Butter Chicken	Creamy tomato-based curry with tender chicken pieces	200	00:45:00
7	Tandoori Chicken	Marinated chicken cooked in a tandoor for a smoky flavor	210	00:45:00
2	Paneer Tikka Masala	Spicy paneer tikka in a rich and flavorful masala	180	00:40:00
10	Rajma Chawal	Red kidney beans curry served with steamed rice	160	00:40:00
6	Palak Paneer	Cottage cheese cubes in a creamy spinach sauce	190	00:35:00
4	Masala Dosa	Thin rice crepes filled with spiced potato filling	150	00:30:00
8	Aloo Paratha	Whole wheat bread stuffed with spiced mashed potatoes	130	00:25:00

```
10 rows in set (0.00 sec)
```

```
mysql> select name, price from meal where price >= 300 order by price ASC;
```

```
Empty set (0.00 sec)
```

```
mysql> select name, price from meal where price >= 210 order by price ASC;
```

name	price
Tandoori Chicken	210
Biryani	220

```
2 rows in set (0.00 sec)
```

```
mysql>
```