```
mysql> create database college_canteen;
Query OK, 1 row affected (0.01 sec)

mysql> use college_canteen;
Database changed
mysql> CREATE TABLE Food (
    ->        F_item_no INT PRIMARY KEY,
    ->        F_name VARCHAR(50),
    ->        F_type VARCHAR(30),
    ->        F_price DECIMAL(10,2)
    -> );
Query OK, 0 rows affected (0.04 sec)

mysql>
```

```
mysql> CREATE TABLE Customer (
    ->     customer_id INT PRIMARY KEY ,
    ->     c_name VARCHAR(50),
    ->     ph_no VARCHAR(15),
    ->     address VARCHAR(100),
    ->     first_name VARCHAR(30),
    ->     middle_name VARCHAR(30),
    ->     last_name VARCHAR(30)
    -> );
Query OK, 0 rows affected (0.07 sec)

mysql> CREATE TABLE Administrator (
    ->     admin_id INT PRIMARY KEY,
    ->     A_name VARCHAR(50),
    ->     address VARCHAR(100)
    -> );
Query OK, 0 rows affected (0.07 sec)

mysql> CREATE TABLE Phone_numbers (
    ->     admin_id INT,
    ->     ph_no VARCHAR(10),
    ->     PRIMARY KEY (admin_id, ph_no),
    ->     FOREIGN KEY (admin_id) REFERENCES Administrator(admin
_id)
    -> );
Query OK, 0 rows affected (0.07 sec)
```

```
mysql> CREATE TABLE Orders (
    ->      order_id INT PRIMARY KEY,
    ->      order_date DATE,
    ->      order_No VARCHAR(20),
    ->      user_id INT,
    ->      quantity INT,
    ->      customer_id INT,
    ->      admin_id INT,
    ->      FOREIGN KEY (customer_id) REFERENCES Customer(custome
r_id),
    ->      FOREIGN KEY (admin_id) REFERENCES Administrator(admin
_id)
    -> );
Query OK, 0 rows affected (0.10 sec)

mysql> CREATE TABLE Item (
    ->      item_id INT PRIMARY KEY,
    ->      I_name VARCHAR(50),
    ->      description VARCHAR(100),
    ->      price DECIMAL(10,2),
    ->      order_id INT,
    ->      customer_id INT,
    ->      FOREIGN KEY (order_id) REFERENCES Orders(order_id),
    ->      FOREIGN KEY (customer_id) REFERENCES Customer(custome
r_id)
    -> );
Query OK, 0 rows affected (0.10 sec)
```

```
mysql> CREATE TABLE Staff (
    ->      staff_id INT PRIMARY KEY,
    ->      staff_name VARCHAR(50),
    ->      order_id INT,
    ->      FOREIGN KEY (order_id) REFERENCES Orders(order_id)
    -> );
Query OK, 0 rows affected (0.05 sec)

mysql> CREATE TABLE Offer (
    ->  offer_id INT,
    ->      offer_amt DECIMAL(10,2),
    ->      start_date DATE,
    ->      end_date DATE,
    ->      item_id INT,
    ->  PRIMARY KEY(item_id,offer_id),
    ->      staff_id INT,
    ->      FOREIGN KEY (item_id) REFERENCES Item(item_id),
    ->      FOREIGN KEY (staff_id) REFERENCES Staff(staff_id)
    -> );
Query OK, 0 rows affected (0.08 sec)

mysql> CREATE TABLE Bill (
    ->      bill_id INT PRIMARY KEY,
    ->      bill_amount DECIMAL(10,2),
    ->      bill_date DATE,
    ->      customer_id INT,
    ->      order_id INT,
    ->      admin_id INT,
    ->      FOREIGN KEY (customer_id) REFERENCES Customer(custome
r_id),
    ->      FOREIGN KEY (order_id) REFERENCES Orders(order_id),
    ->      FOREIGN KEY (admin_id) REFERENCES Administrator(admin
_id)
    -> );
Query OK, 0 rows affected (0.11 sec)
```

```
mysql> CREATE TABLE Delivered (
    ->      customer_id INT,
    ->      F_item_no INT,
    ->      PRIMARY KEY(customer_id,F_item_no),
    ->      FOREIGN KEY (customer_id) REFERENCES Customer(custome
r_id),
    ->      FOREIGN KEY (F_item_no) REFERENCES Food(F_item_no)
    -> );
Query OK, 0 rows affected (0.05 sec)

mysql> CREATE TABLE Selects (
    ->      customer_id INT,
    ->      item_id INT,
    ->      PRIMARY KEY(customer_id,item_id),
    ->      FOREIGN KEY (customer_id) REFERENCES Customer(custome
r_id),
    ->      FOREIGN KEY (item_id) REFERENCES Item(item_id)
    -> );
Query OK, 0 rows affected (0.10 sec)
```

DML COMMANDS:

```
mysql> INSERT INTO Food (F_item_no, F_name, F_type, F_price) VALUES
    -> (1, 'Margherita Pizza', 'Veg', 299.00),
    -> (2, 'Chicken Burger', 'Non-Veg', 199.50),
    -> (3, 'Pasta Alfredo', 'Veg', 249.75);
Query OK, 3 rows affected (0.05 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql>
mysql>
mysql> INSERT INTO Customer (customer_id, c_name, ph_no, address, first_name, middle_name, last_name) VALUES
    -> (1, 'Alice Smith', '9876543210', '123 Main St, City', 'Alice', 'M', 'Smith'),
    -> (2, 'Bob Johnson', '9123456780', '456 Lake View, Town', 'Bob', 'A', 'Johnson'),
    -> (3, 'Carol White', '9988776655', '789 Green Park, City', 'Carol', NULL, 'White');
Query OK, 3 rows affected (0.01 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql> desc customer;
+-------------+--------------+------+-----+---------+-------+
| Field       | Type         | Null | Key | Default | Extra |
+-------------+--------------+------+-----+---------+-------+
| customer_id | int          | NO   | PRI | NULL    |       |
| c_name      | varchar(50)  | YES  |     | NULL    |       |
| ph_no       | varchar(15)  | YES  |     | NULL    |       |
| address     | varchar(100) | YES  |     | NULL    |       |
| first_name  | varchar(30)  | YES  |     | NULL    |       |
| middle_name | varchar(30)  | YES  |     | NULL    |       |
| last_name   | varchar(30)  | YES  |     | NULL    |       |
+-------------+--------------+------+-----+---------+-------+
7 rows in set (0.01 sec)
```

```
mysql> select *from customer;
+-------------+-------------+------------+----------------------+------------+-------------+-----------+
| customer_id | c_name      | ph_no      | address              | first_name | middle_name | last_name |
+-------------+-------------+------------+----------------------+------------+-------------+-----------+
|           1 | Alice Smith | 9876543210 | 123 Main St, City     | Alice      | M           | Smith     |
|           2 | Bob Johnson | 9123456780 | 456 Lake View, Town   | Bob        | A           | Johnson   |
|           3 | Carol White | 9988776655 | 789 Green Park, City  | Carol      | NULL        | White     |
+-------------+-------------+------------+----------------------+------------+-------------+-----------+
3 rows in set (0.00 sec)

mysql>
mysql> INSERT INTO Administrator (admin_id, A_name, address) VALUES
    -> (1, 'Admin One', 'HQ Building, City'),
    -> (2, 'Admin Two', 'Branch Office, Town'),
    -> (3, 'Admin Three', 'Warehouse Street, City');
Query OK, 3 rows affected (0.01 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql>
mysql> INSERT INTO Phone_numbers (admin_id, ph_no) VALUES
    -> (1, '9000000001'),
    -> (2, '9000000002'),
    -> (3, '9000000003');
Query OK, 3 rows affected (0.01 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql>
mysql> INSERT INTO Orders (order_id, order_date, order_No, user_id, quantity, customer_id, admin_id) VALUES
    -> (1, '2025-10-01', 'ORD001', 101, 2, 1, 1),
    -> (2, '2025-10-02', 'ORD002', 102, 1, 2, 2),
    -> (3, '2025-10-03', 'ORD003', 103, 3, 3, 3);
Query OK, 3 rows affected (0.01 sec)
Records: 3  Duplicates: 0  Warnings: 0
```

```
mysql>
mysql> INSERT INTO Item (item_id, I_name, description, price, order_id, customer_id) VALUES
    -> (1, 'Pizza', 'Cheesy Margherita', 299.00, 1, 1),
    -> (2, 'Burger', 'Grilled Chicken', 199.50, 2, 2),
    -> (3, 'Pasta', 'Creamy Alfredo', 249.75, 3, 3);
Query OK, 3 rows affected (0.01 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql>
mysql> INSERT INTO Staff (staff_id, staff_name, order_id) VALUES
    -> (1, 'John', 1),
    -> (2, 'Mary', 2),
    -> (3, 'Steve', 3);
Query OK, 3 rows affected (0.01 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql>
mysql> INSERT INTO Offer (offer_id, offer_amt, start_date, end_date, item_id, staff_id) VALUES
    -> (1, 50.00, '2025-10-01', '2025-10-10', 1, 1),
    -> (2, 30.00, '2025-10-05', '2025-10-15', 2, 2),
    -> (3, 20.00, '2025-10-08', '2025-10-18', 3, 3);
Query OK, 3 rows affected (0.01 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql>
mysql> INSERT INTO Bill (bill_id, bill_amount, bill_date, customer_id, order_id, admin_id) VALUES
    -> (1, 548.00, '2025-10-01', 1, 1, 1),
    -> (2, 199.50, '2025-10-02', 2, 2, 2),
    -> (3, 699.25, '2025-10-03', 3, 3, 3);
Query OK, 3 rows affected (0.01 sec)
Records: 3  Duplicates: 0  Warnings: 0
```

```
mysql> select *from customer;
+-------------+-------------+------------+----------------------+------------+-------------+-----------+
| customer_id | c_name      | ph_no      | address              | first_name | middle_name | last_name |
+-------------+-------------+------------+----------------------+------------+-------------+-----------+
|           1 | Alice Smith | 9876543210 | 123 Main St, City     | Alice      | M           | Smith     |
|           2 | Bob Johnson | 9123456780 | 456 Lake View, Town   | Bob        | A           | Johnson   |
```

```
mysql>
mysql> INSERT INTO Delivered (customer_id, F_item_no) VALUES
    -> (1, 1),
    -> (2, 2),
    -> (3, 3);
Query OK, 3 rows affected (0.00 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql>
mysql> INSERT INTO Selects (customer_id, item_id) VALUES
    -> (1, 1),
    -> (2, 2),
    -> (3, 3);
Query OK, 3 rows affected (0.01 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql> SHOW TABLES;
+----------------------------+
| Tables_in_college_canteen |
+----------------------------+
| administrator              |
| bill                       |
| customer                   |
| delivered                  |
| food                       |
| item                       |
| offer                      |
| orders                     |
| phone_numbers              |
| selects                    |
| staff                      |
+----------------------------+
11 rows in set (0.00 sec)
```

```
mysql>
mysql> select * from food;
+-----------+------------------+---------+---------+
| F_item_no | F_name           | F_type  | F_price |
+-----------+------------------+---------+---------+
|         1 | Margherita Pizza | Veg     |  299.00 |
|         2 | Chicken Burger   | Non-Veg |  199.50 |
|         3 | Pasta Alfredo    | Veg     |  249.75 |
+-----------+------------------+---------+---------+
3 rows in set (0.00 sec)
```