mysql> create database oms\_db;

Query OK, 1 row affected (0.03 sec)

mysql> show databases;

+--------------------+

| Database |

+--------------------+

| Banking\_system |

| HMBank |

| information\_schema |

| mysql |

| oms\_db |

| performance\_schema |

| practice |

| ProjectManagement |

| sys |

| testdb |

| VirtualArtGallery |

+--------------------+

11 rows in set (0.02 sec)

mysql> use oms\_db;

Database changed

mysql> CREATE TABLE users (

-> user\_id INT PRIMARY KEY,

-> username VARCHAR(50) NOT NULL UNIQUE,

-> password VARCHAR(50) NOT NULL,

-> role VARCHAR(20) NOT NULL CHECK (role IN ('Admin', 'User'))

-> );

Query OK, 0 rows affected (0.01 sec)

mysql> desc users;

+----------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+----------+-------------+------+-----+---------+-------+

| user\_id | int | NO | PRI | NULL | |

| username | varchar(50) | NO | UNI | NULL | |

| password | varchar(50) | NO | | NULL | |

| role | varchar(20) | NO | | NULL | |

+----------+-------------+------+-----+---------+-------+

4 rows in set (0.04 sec)

mysql> CREATE TABLE products (

-> product\_id INT PRIMARY KEY,

-> product\_name VARCHAR(100),

-> description TEXT,

-> price DOUBLE,

-> quantity INT,

-> product\_type VARCHAR(50), -- 'Electronics' or 'Clothing'

-> brand VARCHAR(50), -- Electronics only

-> warranty INT, -- Electronics only

-> size VARCHAR(10), -- Clothing only

-> color VARCHAR(30) -- Clothing only

-> );

Query OK, 0 rows affected (0.01 sec)

mysql> desc products;

+--------------+--------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+--------------+--------------+------+-----+---------+-------+

| product\_id | int | NO | PRI | NULL | |

| product\_name | varchar(100) | YES | | NULL | |

| description | text | YES | | NULL | |

| price | double | YES | | NULL | |

| quantity | int | YES | | NULL | |

| product\_type | varchar(50) | YES | | NULL | |

| brand | varchar(50) | YES | | NULL | |

| warranty | int | YES | | NULL | |

| size | varchar(10) | YES | | NULL | |

| color | varchar(30) | YES | | NULL | |

+--------------+--------------+------+-----+---------+-------+

10 rows in set (0.00 sec)

mysql> CREATE TABLE orders (

-> order\_id INT PRIMARY KEY AUTO\_INCREMENT,

-> user\_id INT,

-> FOREIGN KEY (user\_id) REFERENCES users(user\_id) ON DELETE CASCADE

-> );

Query OK, 0 rows affected (0.01 sec)

mysql> desc orders;

+----------+------+------+-----+---------+----------------+

| Field | Type | Null | Key | Default | Extra |

+----------+------+------+-----+---------+----------------+

| order\_id | int | NO | PRI | NULL | auto\_increment |

| user\_id | int | YES | MUL | NULL | |

+----------+------+------+-----+---------+----------------+

2 rows in set (0.00 sec

mysql> CREATE TABLE order\_items (

-> order\_id INT,

-> product\_id INT,

-> quantity INT DEFAULT 1,

-> PRIMARY KEY (order\_id, product\_id),

-> FOREIGN KEY (order\_id) REFERENCES orders(order\_id) ON DELETE CASCADE,

-> FOREIGN KEY (product\_id) REFERENCES products(product\_id)

-> );

Query OK, 0 rows affected (0.01 sec)

mysql> desc order\_items;

+------------+------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+------------+------+------+-----+---------+-------+

| order\_id | int | NO | PRI | NULL | |

| product\_id | int | NO | PRI | NULL | |

| quantity | int | YES | | 1 | |

+------------+------+------+-----+---------+-------+

3 rows in set (0.00 sec)

mysql> INSERT INTO users (user\_id, username, password, role) VALUES

-> (101, 'admin01', 'adminpass', 'Admin'),

-> (102, 'user01', 'userpass', 'User');

Query OK, 2 rows affected (0.01 sec)

Records: 2 Duplicates: 0 Warnings: 0

mysql> SELECT \* FROM users;

+---------+----------+-----------+-------+

| user\_id | username | password | role |

+---------+----------+-----------+-------+

| 101 | admin01 | adminpass | Admin |

| 102 | user01 | userpass | User |

+---------+----------+-----------+-------+

2 rows in set (0.00 sec)

mysql> INSERT INTO products (product\_id, product\_name, description, price, quantity, product\_type, brand, warranty)

-> VALUES

-> (201, 'Samsung LED TV', '42-inch Smart TV', 35999.99, 10, 'Electronics', 'Samsung', 24),

-> (202, 'HP Laptop', 'Intel i5, 8GB RAM, 512GB SSD', 59999.99, 8, 'Electronics', 'HP', 12);

Query OK, 2 rows affected (0.01 sec)

Records: 2 Duplicates: 0 Warnings: 0

mysql> INSERT INTO products (product\_id, product\_name, description, price, quantity, product\_type, size, color)

-> VALUES

-> (203, 'Nike T-Shirt', 'Dry-Fit Cotton T-Shirt', 999.50, 25, 'Clothing', 'L', 'Black');

Query OK, 1 row affected (0.00 sec)

mysql> SELECT \* FROM products;

+------------+----------------+------------------------------+----------+----------+--------------+---------+----------+------+-------+

| product\_id | product\_name | description | price | quantity | product\_type | brand | warranty | size | color |

+------------+----------------+------------------------------+----------+----------+--------------+---------+----------+------+-------+

| 201 | Samsung LED TV | 42-inch Smart TV | 35999.99 | 10 | Electronics | Samsung | 24 | NULL | NULL |

| 202 | HP Laptop | Intel i5, 8GB RAM, 512GB SSD | 59999.99 | 8 | Electronics | HP | 12 | NULL | NULL |

| 203 | Nike T-Shirt | Dry-Fit Cotton T-Shirt | 999.5 | 25 | Clothing | NULL | NULL | L | Black |

+------------+----------------+------------------------------+----------+----------+--------------+---------+----------+------+-------+

3 rows in set (0.00 sec)

mysql> INSERT INTO orders (user\_id) VALUES (102);

Query OK, 1 row affected (0.01 sec)

mysql> SELECT \* FROM orders;

+----------+---------+

| order\_id | user\_id |

+----------+---------+

| 1 | 102 |

+----------+---------+

mysql> INSERT INTO order\_items (order\_id, product\_id, quantity) VALUES (1, 201, 1), (1, 203, 2);

Query OK, 2 rows affected (0.00 sec)

Records: 2 Duplicates: 0 Warnings: 0

mysql> SELECT \* FROM order\_items;

+----------+------------+----------+

| order\_id | product\_id | quantity |

+----------+------------+----------+

| 1 | 201 | 1 |

| 1 | 203 | 2 |

+----------+------------+----------+

2 rows in set (0.00 sec)