

```
mysql> CREATE DATABASE salma;
Query OK, 1 row affected (1.429 sec)

mysql> USE salma
Database changed
mysql> CREATE TABLE Users (UserID INT PRIMARY KEY,UserName VARCHAR(100),Email VARCHAR(100),Role VARCHAR(20));
Query OK, 0 rows affected (1.421 sec)

mysql> CREATE TABLE Products (ProductID INT PRIMARY KEY,ProductName VARCHAR(100),Price DECIMAL(10,2),Stock INT);
Query OK, 0 rows affected (0.361 sec)

mysql> CREATE TABLE PaymentMethods (PaymentID INT PRIMARY KEY,MethodName VARCHAR(50));
Query OK, 0 rows affected (0.217 sec)

mysql> CREATE TABLE Orders (OrderID INT PRIMARY KEY,UserID INT,PaymentID INT,OrderDate DATE,TotalAmount DECIMAL(10,2),FOREIGN KEY (UserID) REFERENCES Users(UserID),FOREIGN KEY (PaymentID) REFERENCES PaymentMethods(PaymentID));
Query OK, 0 rows affected (0.592 sec)

mysql> CREATE TABLE OrderDetails (OrderID INT,ProductID INT,Quantity INT,PRIMARY KEY (OrderID, ProductID),FOREIGN KEY (OrderID) REFERENCES Orders(OrderID),FOREIGN KEY (ProductID) REFERENCES Products(ProductID));
Query OK, 0 rows affected (0.468 sec)
```

```
mysql> INSERT INTO Users VALUES(1, 'Salma', 'salma@gmail.com', 'Admin'),(2, 'Omar', 'omar@gmail.com', 'Customer'),(3, 'Laila', 'laila@gmail.com', 'Customer'),(4, 'Ahmed', 'ahmed@gmail.com', 'Customer'),(5, 'Noor', 'noor@gmail.com', 'Customer'),(6, 'Tamer', 'tamer@gmail.com', 'Admin'),(7, 'Hana', 'hana@gmail.com', 'Customer'),(8, 'Yousef', 'yousef@gmail.com', 'Customer'),(9, 'Mona', 'mona@gmail.com', 'Customer'),(10, 'Ziad', 'ziad@gmail.com', 'Customer');
Query OK, 10 rows affected (0.430 sec)
Records: 10  Duplicates: 0  Warnings: 0

mysql> INSERT INTO Products VALUES(1, 'Laptop', 12000.00, 10),(2, 'Mouse', 250.00, 100),(3, 'Keyboard', 450.00, 60),(4, 'Monitor', 2500.00, 30),(5, 'USB Cable', 75.00, 200),(6, 'Headset', 600.00, 50),(7, 'Webcam', 800.00, 20),(8, 'Printer', 3000.00, 15),(9, 'Scanner', 2200.00, 10),(10, 'Chair', 900.00, 40);
Query OK, 10 rows affected (0.207 sec)
Records: 10  Duplicates: 0  Warnings: 0

mysql> INSERT INTO PaymentMethods VALUES(1, 'Credit Card'),(2, 'PayPal'),(3, 'Cash'),(4, 'Bank Transfer'),(5, 'Apple Pay'),(6, 'Google Pay'),(7, 'Visa'),(8, 'MasterCard'),(9, 'COD'),(10, 'Stripe');
Query OK, 10 rows affected (0.163 sec)
Records: 10  Duplicates: 0  Warnings: 0

mysql> INSERT INTO Orders VALUES(1, 2, 1, '2025-05-10', 12250.00),(2, 3, 2, '2025-05-11', 650.00),(3, 4, 3, '2025-05-12', 800.00),(4, 5, 1, '2025-05-13', 3050.00),(5, 6, 4, '2025-05-14', 1500.00),(6, 7, 5, '2025-05-15', 2300.00),(7, 8, 2, '2025-05-15', 350.00),(8, 9, 1, '2025-05-15', 600.00),(9, 10, 3, '2025-05-15', 2900.00),(10, 1, 2, '2025-05-15', 1700.00);
Query OK, 10 rows affected (0.109 sec)
Records: 10  Duplicates: 0  Warnings: 0

mysql> INSERT INTO OrderDetails VALUES(1, 1, 1),(1, 2, 1),(2, 2, 2),(3, 3, 1),(4, 4, 1),(5, 5, 5),(6, 6, 2),(7, 7, 1),(8, 8, 1),(9, 9, 1);
Query OK, 10 rows affected (0.099 sec)
Records: 10  Duplicates: 0  Warnings: 0
```

```
mysql> SELECT * FROM Products WHERE ProductName LIKE '%Cam%';
+-----+-----+-----+-----+
| ProductID | ProductName | Price | Stock |
+-----+-----+-----+-----+
|      7 | Webcam       | 800.00 |    20 |
+-----+-----+-----+-----+
1 row in set (0.260 sec)
```

```
mysql> SELECT u.UserName, COUNT(o.OrderID) AS TotalOrders, SUM(o.TotalAmount) AS TotalSpent FROM Users u JOIN Orders o ON u.UserID = o.UserID GROUP BY u.UserName;
+-----+-----+-----+
| UserName | TotalOrders | TotalSpent |
+-----+-----+-----+
| Salma   |        1 | 1700.00 |
| Omar    |        1 | 12250.00 |
| Laila   |        1 | 650.00  |
| Ahmed   |        1 | 800.00  |
| Noor    |        1 | 3050.00 |
| Tamer   |        1 | 1500.00 |
| Hana    |        1 | 2300.00 |
| Yousef  |        1 | 350.00  |
| Mona    |        1 | 600.00  |
| Ziad    |        1 | 2900.00 |
+-----+-----+-----+
10 rows in set (0.248 sec)
```

```
mysql> SELECT * FROM Orders ORDER BY OrderDate DESC;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'BY OrderDate DESC' at line 1
mysql> SELECT * FROM Orders ORDER BY OrderDate DESC;
+----+----+----+----+-----+
| OrderID | UserID | PaymentID | OrderDate | TotalAmount |
+----+----+----+----+-----+
| 6 | 7 | 5 | 2025-05-15 | 2300.00 |
| 7 | 8 | 2 | 2025-05-15 | 350.00 |
| 8 | 9 | 1 | 2025-05-15 | 600.00 |
| 9 | 10 | 3 | 2025-05-15 | 2900.00 |
| 10 | 1 | 2 | 2025-05-15 | 1700.00 |
| 5 | 6 | 4 | 2025-05-14 | 1500.00 |
| 4 | 5 | 1 | 2025-05-13 | 3050.00 |
| 3 | 4 | 3 | 2025-05-12 | 800.00 |
| 2 | 3 | 2 | 2025-05-11 | 650.00 |
| 1 | 2 | 1 | 2025-05-10 | 12250.00 |
+----+----+----+----+-----+
10 rows in set (0.026 sec)

mysql> SELECT * FROM Orders WHERE TotalAmount > 1000;
+----+----+----+----+-----+
| OrderID | UserID | PaymentID | OrderDate | TotalAmount |
+----+----+----+----+-----+
| 1 | 2 | 1 | 2025-05-10 | 12250.00 |
| 4 | 5 | 1 | 2025-05-13 | 3050.00 |
| 5 | 6 | 4 | 2025-05-14 | 1500.00 |
| 6 | 7 | 5 | 2025-05-15 | 2300.00 |
| 9 | 10 | 3 | 2025-05-15 | 2900.00 |
| 10 | 1 | 2 | 2025-05-15 | 1700.00 |
+----+----+----+----+-----+
6 rows in set (0.089 sec)
```

```
mysql> SELECT * FROM Products ORDER BY Price ASC;
```

ProductID	ProductName	Price	Stock
5	USB Cable	75.00	200
2	Mouse	250.00	100
3	Keyboard	450.00	60
6	Headset	600.00	50
7	Webcam	800.00	20
10	Chair	900.00	40
9	Scanner	2200.00	10
4	Monitor	2500.00	30
8	Printer	3000.00	15
1	Laptop	12000.00	10

```
10 rows in set (0.123 sec)
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