

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator

SQL File 3* SQL File 5* SQL File 6* SQL File 7*

Limit to 1000 rows

SCHEMAS

Filter objects

- company
- leetcode596
- onlinestore
 - Tables
 - categories
 - customers
 - orderdetails
 - orders
 - products
 - Views
 - Stored Procedures
 - Functions
- sales_analysis
- schl
- sys

Administration Schemas

Information

No object selected

```
1 CREATE DATABASE OnlineStore;
2 USE OnlineStore;
3 CREATE TABLE Categories (CategoryID int PRIMARY KEY auto_increment, CategoryName varchar (100) NOT NULL);
4 CREATE TABLE Products (ProductID int PRIMARY KEY auto_increment,
5   ProductName varchar (100) NOT NULL,
6   Price DECIMAL(10,2) NOT NULL,
7   CategoryID int,
8   FOREIGN KEY (CategoryID) REFERENCES Categories(CategoryID)
9 );
10 CREATE TABLE Customers (CustomerID INT PRIMARY KEY auto_increment,
11   CustomerName varchar(50) NOT NULL,
12   Email varchar(50)
13 );
14 CREATE TABLE Orders (OrderID INT PRIMARY KEY auto_increment,
15   CustomerID INT,
16   OrderDate DATE,
17   FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID)
18 );
19 CREATE TABLE OrderDetails (OrderDetailID INT PRIMARY KEY AUTO_INCREMENT,
20   OrderID INT,
21   ProductID INT,
22   Quantity INT,
23   FOREIGN KEY (OrderID) REFERENCES Orders(OrderID),
24   FOREIGN KEY (ProductID) REFERENCES Products(ProductID)
25 );
```

Output

Object Info Session

Type here to search

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Administration Schemas

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No object selected

SQL File 3* SQL File 5* SQL File 6* SQL File 7*

Limit to 1000 rows

```
24 FOREIGN KEY (ProductID) REFERENCES Products(ProductID)
25 );
26 • INSERT INTO Categories (CategoryName) VALUES
27 ('Electronics'),
28 ('Clothing'),
29 ('Books');
30 • INSERT INTO Products (ProductName, Price, CategoryID) VALUES
31 ('Smartphone', 699.99, 1),
32 ('Laptop', 999.99, 1),
33 ('T-Shirt', 19.99, 2),
34 ('Novel', 14.99, 3);
35 • INSERT INTO Customers (CustomerName, Email) VALUES
36 ('John Doe', 'john@example.com'),
37 ('Jane Smith', 'jane@example.com');
38 • INSERT INTO Orders (CustomerID, OrderDate) VALUES
39 (1, '2025-04-25'),
40 (2, '2025-04-26');
41 • INSERT INTO OrderDetails (OrderID, ProductID, Quantity) VALUES
42 (1, 1, 2),
43 (1, 4, 1),
44 (2, 3, 3);
45 • SHOW TABLES;
46 • SELECT * FROM Products;
47 • SELECT * FROM Categories;
```

Output

Object Info Session

Type here to search

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Navigator SCHEMAS

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- sch
- sys

Administration Schemas Information

No object selected

SQL File 3* SQL File 5* SQL File 6* SQL File 7* x

Limit to 1000 rows

```
48
49  -- INNER JOIN                                -- Retrieving all the products along with their category names
50
51 • SELECT p.ProductID,
52    p.ProductName,
53    p.Price,
54    c.CategoryName
55 FROM Products p
56 INNER JOIN Categories c ON p.CategoryID = c.CategoryID;
57
58  -- LEFT JOIN                                -- Get a list of all customers along with their order dates
59
60 • SELECT * FROM Customers;
61 • SELECT * FROM Orders;
62 • SELECT c.CustomerID,
63    c.CustomerName,
64    c.Email,
65    o.OrderDate
66 FROM Customers c
67 LEFT JOIN Orders o ON c.CustomerID = o.CustomerID;
68
```

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Administration Schemas

Information

No object selected

SQL File 3* SQL File 5* SQL File 6* SQL File 7*

Limit to 1000 rows

```
68
69  -- RIGHT JOIN                                -- Retrieving all the order details along with customers information
70
71  • SELECT * FROM Orders;
72  • SELECT * FROM Customers;
73  • SELECT c.CustomerID,
74    c.CustomerName,
75    c.Email,
76    o.OrderID,
77    o.OrderDate
78  FROM Customers c
79  RIGHT JOIN Orders o ON o.CustomerID = c.CustomerID;
80
81  -- CROSS JOIN                                -- Retrieving all the customers and pairing each one with every product
82
83  • SELECT * FROM Customers;
84  • SELECT * FROM Products;
85  • SELECT c.CustomerName, p.ProductName
86  FROM Customers c
87  CROSS JOIN Products p;
88
```

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```
88
89  -- VIEW                                -- Listing all customers with their products and quantity using VIEW
90
91  • SELECT * FROM Orders;
92  • SELECT * FROM Products;
93  • SELECT * FROM OrderDetails;
94  • CREATE VIEW CustomerOrderDetails AS
95    SELECT c.CustomerName,
96           o.OrderID,
97           p.ProductName,
98           od.Quantity
99    FROM Customers c
100   JOIN Orders o ON c.CustomerID = o.CustomerID
101   JOIN OrderDetails od ON o.OrderID = od.OrderID
102   JOIN Products p ON od.ProductID = p.ProductID;
103  • SELECT * FROM CustomerOrderDetails;
104
```

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```
104
105  -- SUBQUERY (SINGLE ROW)                                -- Finding the highest price product
106
107  • SELECT ProductName, Price FROM Products
108  WHERE Price = (SELECT Max(Price) FROM Products);
109
110  • SELECT ProductName, Price From Products                -- Finding the lowest price product
111  Where Price = (Select Min(Price) From Products);
112
113  • SELECT CustomerName FROM Customers c                    -- Customer who Has Ordered the Most Expensive Product
114  WHERE CustomerID = (
115    SELECT o.CustomerID FROM Orders o
116    JOIN OrderDetails od ON o.OrderID = od.OrderID
117    Join Products p ON od.ProductID = p.ProductID
118    ORDER BY Price DESC
119    LIMIT 1
120  );
121
```

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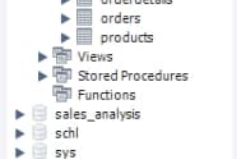
```
121
122 -- SUBQUERY (MULTI ROW)
123
124 • SELECT ProductName, Price -- Finding higher price product than average price of all products
125 FROM Products
126 WHERE Price > (SELECT AVG(Price) FROM Products);
127
128 • SELECT CustomerName -- Customers who have ordered more than one product
129 FROM Customers
130 WHERE CustomerID IN (
131 SELECT o.CustomerID
132 FROM Orders o
133 JOIN OrderDetails od ON o.OrderID = od.OrderID
134 GROUP BY o.CustomerID
135 HAVING COUNT(od.ProductID) > 1
136 );
137
138 • SELECT ProductName -- Get All Products from the "Electronics" Category
139 FROM Products
140 WHERE CategoryID IN (
141 SELECT CategoryID
142 FROM Categories
143 WHERE CategoryName = 'Electronics'
144 );
145
```

Output

Object Info Session

Type here to search

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Administration Schemas

Information

No object selected

Object Info Session

```
145
146 -- STORED PROCEDURE
147
148 DELIMITER // -- Stored Procedure to Show All Customers
149 CREATE PROCEDURE ShowAllCustomers()
150 BEGIN
151 SELECT * FROM Customers;
152 END//
153 DELIMITER ;
154 • CALL ShowAllCustomers();
155
156 DELIMITER //
157 • CREATE PROCEDURE GetCustomerCount() -- Get Customers count
158 BEGIN
159 SELECT COUNT(*) AS TotalCustomers FROM Customers;
160 END //
161 DELIMITER ;
162 • CALL GetCustomerCount();
```

Output