

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHMAS

Filter objects

- company
 - Tables
 - Views
 - Stored Procedures
 - Functions
- dummy
- example
- job
- sakila
- sys
- world

Administration Schemas

Information

No object selected

SQL File 4" SQL File 3" SQL File 4" SQL File 5" SQL File 5" SQL File 7" x

Don't Limit

```
1 -- Create the database
2 CREATE DATABASE OnlineStore;
3 USE OnlineStore;
4
5 -- Categories Table
6 CREATE TABLE Categories (
7     CategoryID INT PRIMARY KEY AUTO_INCREMENT,
8     CategoryName VARCHAR(50) NOT NULL
9 );
10
11 -- Insert Data into Categories
12 INSERT INTO Categories (CategoryName) VALUES
13     ('Electronics'),
14     ('Clothing'),
15     ('Books'),
16     ('Home Appliances');
17
```

A database named
onlinestore is created

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	12:29:47	CREATE DATABASE OnlineStore	1 row(s) affected	0.453 sec

Object Info Session

Type here to search

27°C Partly cloudy 12:30 06-02-2025

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHMAS

Filter objects

company

Tables

Views

Stored Procedures

Functions

dummy

example

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world

Administration Schemas

Information

No object selected

SQL File 4" SQL File 3" SQL File 4" SQL File 5" SQL File 5" SQL File 7" x

Don't Limit

```
1 -- Create the database
2 CREATE DATABASE OnlineStore;
3 USE OnlineStore;
4
5 -- Categories Table
6 CREATE TABLE Categories (
7     CategoryID INT PRIMARY KEY AUTO_INCREMENT,
8     CategoryName VARCHAR(50) NOT NULL
9 );
10
11 -- Insert Data into Categories
12 INSERT INTO Categories (CategoryName) VALUES
13     ('Electronics'),
14     ('Clothing'),
15     ('Books'),
16     ('Home Appliances');
```

Ensure that all subsequent operations are performed within this database

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	12:29:47	CREATE DATABASE OnlineStore	1 row(s) affected	0.453 sec
2	12:32:55	USE OnlineStore	0 row(s) affected	0.000 sec

Object Info Session

Type here to search

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12:33 06-02-2025

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

- company
 - Tables
 - Views
 - Stored Procedures
 - Functions
- dummy
- example
- job
- sakila
- sys
- world

Administration Schemas

Information

No object selected

SQL File 4" SQL File 3" SQL File 4" SQL File 5" SQL File 5" SQL File 7" x

Don't Limit

```
1 -- Create the database
2 CREATE DATABASE OnlineStore;
3 USE OnlineStore;
4
5 -- Categories Table
6 CREATE TABLE Categories (
7     CategoryID INT PRIMARY KEY AUTO_INCREMENT,
8     CategoryName VARCHAR(50) NOT NULL
9 );
10
11 -- Insert Data into Categories
12 INSERT INTO Categories (CategoryName) VALUES
13     ('Electronics'),
14     ('Clothing'),
15     ('Books'),
16     ('Home Appliances');
```

Creates a new table
Called categories

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 1	12:29:47	CREATE DATABASE OnlineStore	1 row(s) affected	0.453 sec
✓ 2	12:32:55	USE OnlineStore	0 row(s) affected	0.000 sec
✓ 3	12:35:13	CREATE TABLE Categories (CategoryID INT PRIMARY KEY AUTO_INCREMENT, Category...	0 row(s) affected	0.968 sec

Object Info Session

Type here to search

27°C Partly cloudy

12:35
06-02-2025

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHMAS

Filter objects

- company
 - Tables
 - Views
 - Stored Procedures
 - Functions
- dummy
- example
- job
- sakila
- sys
- world

Administration Schemas

Information

No object selected

SQL File 4" SQL File 3" SQL File 4" SQL File 5" SQL File 5" SQL File 7" x

Don't Limit

```
1 -- Create the database
2 CREATE DATABASE OnlineStore;
3 USE OnlineStore;
4
5 -- Categories Table
6 CREATE TABLE Categories (
7     CategoryID INT PRIMARY KEY AUTO_INCREMENT,
8     CategoryName VARCHAR(50) NOT NULL
9 );
10
11 -- Insert Data into Categories
12 INSERT INTO Categories (CategoryName) VALUES
13 ('Electronics'),
14 ('Clothing'),
15 ('Books'),
16 ('Home Appliances');
```

Inserts data in the categories table

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 1	12:29:47	CREATE DATABASE OnlineStore	1 row(s) affected	0.453 sec
✓ 2	12:32:55	USE OnlineStore	0 row(s) affected	0.000 sec
✓ 3	12:35:13	CREATE TABLE Categories (CategoryID INT PRIMARY KEY AUTO_INCREMENT, Category...	0 row(s) affected	0.968 sec
✓ 4	12:36:26	INSERT INTO Categories (CategoryName) VALUES ('Electronics'), ('Clothing'), ('Books'), ('Home A...	4 row(s) affected Records: 4 Duplicates: 0 Warnings: 0	0.344 sec

Object Info Session

27°C Partly cloudy 12:36 06-02-2025

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

- company
 - Tables
 - Views
 - Stored Procedures
 - Functions
- dummy
- example
- job
- sakila
- sys
- world

Administration Schemas

Information

No object selected

SQL File 4" SQL File 3" SQL File 4" SQL File 5" SQL File 5" SQL File 7" x

Don't Limit

```
10
11 -- Insert Data into Categories
12 INSERT INTO Categories (CategoryName) VALUES
13 ('Electronics'),
14 ('Clothing'),
15 ('Books'),
16 ('Home Appliances');
17
18 -- Products Table
19 CREATE TABLE Products (
20     ProductID INT PRIMARY KEY AUTO_INCREMENT,
21     ProductName VARCHAR(100) NOT NULL,
22     Price DECIMAL(10, 2) NOT NULL,
23     QuantityInStock INT NOT NULL,
24     CategoryID INT,
25     FOREIGN KEY (CategoryID) REFERENCES Categories(CategoryID)
26 );
```

Creates a new table called products

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	12:29:47	CREATE DATABASE OnlineStore	1 row(s) affected	0.453 sec
2	12:32:55	USE OnlineStore	0 row(s) affected	0.000 sec
3	12:35:13	CREATE TABLE Categories (CategoryID INT PRIMARY KEY AUTO_INCREMENT, Category...	0 row(s) affected	0.968 sec
4	12:36:26	INSERT INTO Categories (CategoryName) VALUES ('Electronics'), ('Clothing'), ('Books'), ('Home A...	4 row(s) affected Records: 4 Duplicates: 0 Warnings: 0	0.344 sec
5	12:37:12	CREATE TABLE Products (ProductID INT PRIMARY KEY AUTO_INCREMENT, ProductNa...	0 row(s) affected	2.078 sec

Object Info Session

Type here to search

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12:37 06-02-2025

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHMAS

Filter objects

- company
- dummy
- example
- job
- onlinestore
 - Tables
 - Views
 - Stored Procedures
 - Functions
- skila
- sys

Administration Schemas

Information

No object selected

SQL File 4" SQL File 3" SQL File 4" SQL File 5" SQL File 5" SQL File 7" x

Don't Limit

```
22 Price DECIMAL(10, 2) NOT NULL,
23 QuantityInStock INT NOT NULL,
24 CategoryID INT,
25 FOREIGN KEY (CategoryID) REFERENCES Categories(CategoryID)
26 );
27
28 -- Insert Data into Products
29 INSERT INTO Products (ProductName, Price, QuantityInStock, CategoryID) VALUES
30 ('Smartphone', 699.99, 50, 1),
31 ('Laptop', 1299.99, 30, 1),
32 ('T-Shirt', 19.99, 100, 2),
33 ('Jeans', 49.99, 80, 2),
34 ('Fiction Book', 14.99, 200, 3),
35 ('Cookbook', 29.99, 150, 3),
36 ('Microwave Oven', 199.99, 20, 4),
37 ('Blender', 89.99, 25, 4);
38
```

Inserts data in the products table

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	17:34:01	USE OnlineStore	0 row(s) affected	0.000 sec
2	17:34:43	INSERT INTO Products (ProductName, Price, QuantityInStock, CategoryID) VALUES ('Smartphon...	8 row(s) affected Records: 8 Duplicates: 0 Warnings: 0	0.546 sec

Object Info Session

Type here to search

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17:34 06-02-2025

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHMAS

Filter objects

- company
- dummy
- example
- job
- onlinestore
 - Tables
 - Views
 - Stored Procedures
 - Functions
- sakila
- sys

Administration Schemas

Information

No object selected

SQL File 4" SQL File 3" SQL File 4" SQL File 5" SQL File 5" SQL File 7" x

Don't Limit

```
33 ('Jeans', 49.99, 80, 2),
34 ('Fiction Book', 14.99, 200, 3),
35 ('Cookbook', 29.99, 150, 3),
36 ('Microwave Oven', 199.99, 20, 4),
37 ('Blender', 89.99, 25, 4),
38
39 -- Customers Table
40 CREATE TABLE Customers (
41     CustomerID INT PRIMARY KEY AUTO_INCREMENT,
42     FirstName VARCHAR(50) NOT NULL,
43     LastName VARCHAR(50) NOT NULL,
44     Email VARCHAR(100) UNIQUE NOT NULL,
45     Phone VARCHAR(15)
46 );
47
48 -- Insert Data into Customers
49 INSERT INTO Customers (FirstName, LastName, Email, Phone) VALUES
```

Creates a new table called customers

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	17:34:01	USE OnlineStore	0 row(s) affected	0.000 sec
2	17:34:43	INSERT INTO Products (ProductName, Price, QuantityInStock, CategoryID) VALUES ('Smartphon...	8 row(s) affected Records: 8 Duplicates: 0 Warnings: 0	0.546 sec
3	17:35:57	CREATE TABLE Customers (CustomerID INT PRIMARY KEY AUTO_INCREMENT, FirstNam...	0 row(s) affected	2.188 sec

Object Info Session

Type here to search

27°C Partly cloudy

17:36
06-02-2025

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

- company
- dummy
- example
- job
- onlinestore
- Tables
- Views
- Stored Procedures
- Functions
- sakila
- sys

Administration Schemas

Information

No object selected

SQL File 4" SQL File 3" SQL File 4" SQL File 5" SQL File 5" SQL File 7" x

Don't Limit

```
42  FirstName VARCHAR(50) NOT NULL,
43  LastName VARCHAR(50) NOT NULL,
44  Email VARCHAR(100) UNIQUE NOT NULL,
45  Phone VARCHAR(15)
46  );
47
48  -- Insert Data into Customers
49  INSERT INTO Customers (FirstName, LastName, Email, Phone) VALUES
50  ('John', 'Doe', 'john.doe@example.com', '1234567890'),
51  ('Jane', 'Smith', 'jane.smith@example.com', '0987654321'),
52  ('Alice', 'Johnson', 'alice.johnson@example.com', '5551234567'),
53  ('Bob', 'Brown', 'bob.brown@example.com', '7778889999');
54
55  -- Orders Table
56  CREATE TABLE Orders (
57  OrderID INT PRIMARY KEY AUTO_INCREMENT,
58  OrderDate DATE NOT NULL,
```

Inserts data in the customers table

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	17:34:01	USE OnlineStore	0 row(s) affected	0.000 sec
2	17:34:43	INSERT INTO Products (ProductName, Price, QuantityInStock, CategoryID) VALUES ('Smartphon...	8 row(s) affected Records: 8 Duplicates: 0 Warnings: 0	0.546 sec
3	17:35:57	CREATE TABLE Customers (CustomerID INT PRIMARY KEY AUTO_INCREMENT, FirstNam...	0 row(s) affected	2.188 sec
4	17:36:53	INSERT INTO Customers (FirstName, LastName, Email, Phone) VALUES ('John', 'Doe', 'john.doe...	4 row(s) affected Records: 4 Duplicates: 0 Warnings: 0	0.188 sec

Object Info Session

Type here to search

27°C Partly cloudy

17:37
06-02-2025

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHMAS

Filter objects

- company
- dummy
- example
- job
- onlinestore
 - Tables
 - Views
 - Stored Procedures
 - Functions
- sakila
- sys

Administration Schemas

Information

No object selected

SQL File 4" SQL File 3" SQL File 4" SQL File 5" SQL File 5" SQL File 7" x

Don't Limit

```
54
55 -- Orders Table
56 CREATE TABLE Orders (
57     OrderID INT PRIMARY KEY AUTO_INCREMENT,
58     OrderDate DATE NOT NULL,
59     CustomerID INT,
60     FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID)
61 );
62
63 -- Insert Data into Orders
64 INSERT INTO Orders (OrderDate, CustomerID) VALUES
65     ('2024-01-15', 1),
66     ('2024-01-20', 2),
67     ('2024-02-05', 1),
68     ('2024-02-10', 3),
69     ('2024-02-15', 4);
70
```

Creates a new table called orders

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	17:34:01	USE OnlineStore	0 row(s) affected	0.000 sec
2	17:34:43	INSERT INTO Products (ProductName, Price, QuantityInStock, CategoryID) VALUES ('Smartphon...	8 row(s) affected Records: 8 Duplicates: 0 Warnings: 0	0.546 sec
3	17:35:57	CREATE TABLE Customers (CustomerID INT PRIMARY KEY AUTO_INCREMENT, FirstNam...	0 row(s) affected	2.188 sec
4	17:36:53	INSERT INTO Customers (FirstName, LastName, Email, Phone) VALUES ('John', 'Doe', 'john.doe...	4 row(s) affected Records: 4 Duplicates: 0 Warnings: 0	0.188 sec
5	17:37:59	CREATE TABLE Orders (OrderID INT PRIMARY KEY AUTO_INCREMENT, OrderDate DAT...	0 row(s) affected	1.812 sec

Object Info Session

Type here to search

27°C Partly cloudy

17:38 06-02-2025

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHMAS

Filter objects

- company
- dummy
- example
- job
- onlinestore
 - Tables
 - Views
 - Stored Procedures
 - Functions
- sakila
- sys

Administration Schemas

Information

No object selected

SQL File 4" SQL File 3" SQL File 4" SQL File 5" SQL File 5" SQL File 7" x

Don't Limit

```
54
55 -- Orders Table
56 CREATE TABLE Orders (
57     OrderID INT PRIMARY KEY AUTO_INCREMENT,
58     OrderDate DATE NOT NULL,
59     CustomerID INT,
60     FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID)
61 );
62
63 -- Insert Data into Orders
64 INSERT INTO Orders (OrderDate, CustomerID) VALUES
65 ('2024-01-15', 1),
66 ('2024-01-20', 2),
67 ('2024-02-05', 1),
68 ('2024-02-10', 3),
69 ('2024-02-15', 4);
70
```

Inserts data in the orders ttable

Output

Action Output

#	Time	Action	Message	Duration / Fetch
2	17:34.43	INSERT INTO Products (ProductName, Price, QuantityInStock, CategoryID) VALUES ('Smartph...	8 row(s) affected Records: 8 Duplicates: 0 Warnings: 0	0.546 sec
3	17:35:57	CREATE TABLE Customers (CustomerID INT PRIMARY KEY AUTO_INCREMENT, FirstNa...	0 row(s) affected	2.188 sec
4	17:36:53	INSERT INTO Customers (FirstName, LastName, Email, Phone) VALUES ('John', 'Doe', 'john.doe...	4 row(s) affected Records: 4 Duplicates: 0 Warnings: 0	0.188 sec
5	17:37:59	CREATE TABLE Orders (OrderID INT PRIMARY KEY AUTO_INCREMENT, OrderDate DA...	0 row(s) affected	1.812 sec
6	17:39:13	INSERT INTO Orders (OrderDate, CustomerID) VALUES ('2024-01-15', 1), ('2024-01-20', 2), ('20...	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.172 sec

Object Info Session

27°C Partly cloudy 17:39 06-02-2025

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHMAS

Filter objects

- company
- dummy
- example
- job
- onlinestore
 - Tables
 - Views
 - Stored Procedures
 - Functions
- sakila
- sys

Administration Schemas

Information

No object selected

SQL File 4" SQL File 3" SQL File 4" SQL File 5" SQL File 5" SQL File 7" x

Don't Limit

```
64 • INSERT INTO Orders (OrderDate, CustomerID) VALUES
65   ('2024-01-15', 1),
66   ('2024-01-20', 2),
67   ('2024-02-05', 1),
68   ('2024-02-10', 3),
69   ('2024-02-15', 4);
70
71 -- OrderDetails Table
72 • CREATE TABLE OrderDetails (
73   OrderDetailID INT PRIMARY KEY AUTO_INCREMENT,
74   OrderID INT,
75   ProductID INT,
76   Quantity INT NOT NULL,
77   FOREIGN KEY (OrderID) REFERENCES Orders(OrderID),
78   FOREIGN KEY (ProductID) REFERENCES Products(ProductID)
79 );
80
```

Creates a new table called orderdetails

Output

Action Output

#	Time	Action	Message	Duration / Fetch
3	17:35:57	CREATE TABLE Customers (CustomerID INT PRIMARY KEY AUTO_INCREMENT, FirstNa...	0 row(s) affected	2.188 sec
4	17:36:53	INSERT INTO Customers (FirstName, LastName, Email, Phone) VALUES ('John', 'Doe', 'john.doe...	4 row(s) affected Records: 4 Duplicates: 0 Warnings: 0	0.188 sec
5	17:37:59	CREATE TABLE Orders (OrderID INT PRIMARY KEY AUTO_INCREMENT, OrderDate DA...	0 row(s) affected	1.812 sec
6	17:39:13	INSERT INTO Orders (OrderDate, CustomerID) VALUES (2024-01-15', 1), (2024-01-20', 2), (20...	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.172 sec
7	17:40:27	CREATE TABLE OrderDetails (OrderDetailID INT PRIMARY KEY AUTO_INCREMENT, Or...	0 row(s) affected	3.563 sec

Object Info Session

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ENG

17:40

06-02-2025

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

- company
- dummy
- example
- job
- onlinestore
 - Tables
 - Views
 - Stored Procedures
 - Functions
- skilla
- sys

Administration Schemas

Information

No object selected

SQL File 4" SQL File 3" SQL File 4" SQL File 5" SQL File 5" SQL File 7" x

Don't Limit

```
76 Quantity INT NOT NULL,
77 FOREIGN KEY (OrderID) REFERENCES Orders(OrderID),
78 FOREIGN KEY (ProductID) REFERENCES Products(ProductID)
79 );
80
81 -- Insert Data into OrderDetails
82 INSERT INTO OrderDetails (OrderID, ProductID, Quantity) VALUES
83 (1, 1, 2), -- John ordered 2 Smartphones
84 (1, 3, 3), -- John ordered 3 T-Shirts
85 (2, 2, 1), -- Jane ordered 1 Laptop
86 (3, 5, 4), -- John ordered 4 Fiction Books
87 (4, 4, 2), -- Alice ordered 2 Jeans
88 (4, 8, 1), -- Alice ordered 1 Blender
89 (5, 7, 1); -- Bob ordered 1 Microwave Oven
90
91 -- Join Query: Fetching Order Information with Customer Details
92 SELECT o.OrderID, o.OrderDate, c.FirstName, c.LastName, p.ProductName, od.Quantity
```

Inserts data in the orderdetails table

Output

Action Output

#	Time	Action	Message	Duration / Fetch
4	17:36:53	INSERT INTO Customers (FirstName, LastName, Email, Phone) VALUES ('John', 'Doe', 'john.doe...	4 row(s) affected Records: 4 Duplicates: 0 Warnings: 0	0.188 sec
5	17:37:59	CREATE TABLE Orders (OrderID INT PRIMARY KEY AUTO_INCREMENT, OrderDate DA...	0 row(s) affected	1.812 sec
6	17:39:13	INSERT INTO Orders (OrderDate, CustomerID) VALUES ('2024-01-15', 1), ('2024-01-20', 2), ('20...	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.172 sec
7	17:40:27	CREATE TABLE OrderDetails (OrderDetailID INT PRIMARY KEY AUTO_INCREMENT, Or...	0 row(s) affected	3.563 sec
8	17:41:59	INSERT INTO OrderDetails (OrderID, ProductID, Quantity) VALUES (1, 1, 2), -- John ordered 2 ...	7 row(s) affected Records: 7 Duplicates: 0 Warnings: 0	0.609 sec

Object Info Session

Type here to search

27°C Partly cloudy

17:42 06-02-2025

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

- dummy
- example
- job
- onlinestore
 - Tables
 - categories
 - orders
 - orderdetails
 - customers
 - products
 - Views

Administration Schemas

Information

No object selected

SQL File 4" SQL File 3" SQL File 4" SQL File 5" SQL File 5" SQL File 7" x

Don't Limit

```
97
98 -- Create View: Total Sales per Product
99 • CREATE VIEW ProductSales AS
100 SELECT p.ProductName, SUM(od.Quantity) AS TotalSold
101 FROM OrderDetails od
102 JOIN Products p ON od.ProductID = p.ProductID
103 GROUP BY p.ProductName;
104
105 -- View Usage
106 • SELECT * FROM ProductSales;
107
108 -- Subquery: Find Customers Who Placed More Than 2 Orders
109 • SELECT FirstName, LastName
110 FROM Customers
111 WHERE CustomerID IN (
112     SELECT CustomerID
113     FROM Orders
114     GROUP BY CustomerID
115     HAVING COUNT(*) > 2
116 )
```

A view for Product Sales:
A virtual table (Product Sales)
Calculates products total quantity

Output

Action Output

#	Time	Action	Message	Duration / Fetch
7	17:40:27	CREATE TABLE OrderDetails (OrderDetailID INT PRIMARY KEY AUTO_INCREMENT, O...	0 row(s) affected	3.563 sec
8	17:41:59	INSERT INTO OrderDetails (OrderID, ProductID, Quantity) VALUES (1, 1, 2). -- John ordered ...	7 row(s) affected Records: 7 Duplicates: 0 Warnings: 0	0.609 sec
9	17:42:51	SELECT o.OrderID, o.OrderDate, c.FirstName, c.LastName, p.ProductName, od.Quantity FROM...	7 row(s) returned	0.000 sec / 0.000 sec
10	17:46:02	SELECT * FROM ProductSales	Error Code: 1146. Table 'onlinestore.productsales' doesn't exist	0.031 sec
11	18:01:47	CREATE VIEW ProductSales AS SELECT p.ProductName, SUM(od.Quantity) AS TotalSold FR...	0 row(s) affected	0.235 sec

Object Info Session

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USD...

ENG

18:02

06-02-2025

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

- dummy
- example
- job
- onlinestore
 - Tables
 - categories
 - orders
 - orderdetails
 - customers
 - products
 - Views

Administration Schemas

Information

No object selected

SQL File 4" SQL File 3" SQL File 4" SQL File 5" SQL File 5" SQL File 7" x

Don't Limit

```
100 SELECT p.ProductName, SUM(od.Quantity) AS TotalSold
101 FROM OrderDetails od
102 JOIN Products p ON od.ProductID = p.ProductID
103 GROUP BY p.ProductName;
104
105 -- View Usage
106 SELECT * FROM ProductSales;
```

Retrieves all Product's sales details

Result Grid

ProductName	TotalSold
Smartphone	2
T-Shirt	3
Laptop	1
Fiction Book	4
Jeans	2
Blender	1
Microwave Oven	1

ProductSales 2 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
8	17:41:59	INSERT INTO OrderDetails (OrderID, ProductID, Quantity) VALUES (1, 1, 2); -- John ordered ...	7 row(s) affected Records: 7 Duplicates: 0 Warnings: 0	0.609 sec
9	17:42:51	SELECT o.OrderID, o.OrderDate, c.FirstName, c.LastName, p.ProductName, od.Quantity FROM ...	7 row(s) returned	0.000 sec / 0.000 sec
10	17:46:02	SELECT * FROM ProductSales	Error Code: 1146. Table 'onlinestore.productsales' doesn't exist	0.031 sec
11	18:01:47	CREATE VIEW ProductSales AS SELECT p.ProductName, SUM(od.Quantity) AS TotalSold FR...	0 row(s) affected	0.235 sec
12	18:02:38	SELECT * FROM ProductSales	7 row(s) returned	0.032 sec / 0.000 sec

Object Info Session

Windows Taskbar: Type here to search, USD/INR +0.28%, 18:02, 06-02-2025

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

- dummy
- example
- job
- onlinestore
 - Tables
 - categories
 - orders
 - orderdetails
 - customers
 - products
 - Views

Administration Schemas

Information

No object selected

SQL File 4" SQL File 3" SQL File 4" SQL File 5" SQL File 5" SQL File 7" x

Don't Limit

```
109
110 -- Subquery: Find Customers who Placed More Than 2 Orders
111 • SELECT FirstName, LastName
112   FROM Customers
113  WHERE CustomerID IN (
114      SELECT CustomerID
115      FROM Orders
116      GROUP BY CustomerID
117      HAVING COUNT(OrderID) > 2
118  )
```

Result Grid

FirstName	LastName
John	Doe

Customers 7 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
16	18:09:19	INSERT INTO OrderDetails (OrderID, ProductID, Quantity) VALUES (6, 2, 1). -- John orders a L...	Error Code: 1452. Cannot add or update a child row: a foreign key constraint fails ('onlinestore', ...	0.750 sec
17	18:09:41	INSERT INTO Orders (OrderDate, CustomerID) VALUES (2024-02-20, 1). -- Adding an extra or...	2 row(s) affected Records: 2 Duplicates: 0 Warnings: 0	0.093 sec
18	18:09:51	INSERT INTO OrderDetails (OrderID, ProductID, Quantity) VALUES (6, 2, 1). -- John orders a L...	2 row(s) affected Records: 2 Duplicates: 0 Warnings: 0	0.156 sec
19	18:11:36	SELECT CustomerID FROM Orders GROUP BY CustomerID HAVING COUNT(OrderID) > 2	1 row(s) returned	0.000 sec / 0.000 sec
20	18:11:54	SELECT FirstName, LastName FROM Customers WHERE CustomerID IN (SELECT Customer...	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

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27°C

18:12 06-02-2025

Name of the customers:
Retrieves customer's first and last name

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

- dummy
- example
- job
- onlinestore
 - Tables
 - categories
 - orders
 - orderdetails
 - customers
 - products
 - Views

Administration Schemas

Information

No object selected

SQL File 4" SQL File 3" SQL File 4" SQL File 5" SQL File 5" SQL File 7" x

Don't Limit

```
113 WHERE CustomerID IN (  
114     SELECT CustomerID  
115     FROM Orders  
116     GROUP BY CustomerID  
117     HAVING COUNT(OrderID) > 2  
118 );  
119  
120 -- Stored Procedure: Get Total Orders by a Customer  
121 DELIMITER //  
122  
123 CREATE PROCEDURE GetTotalOrders(IN CustID INT)  
124 BEGIN  
125     SELECT COUNT(*) AS TotalOrders  
126     FROM Orders  
127     WHERE CustomerID = CustID;  
128 END //  
129
```

Get total orders: A stored procedure that returns the total number of the orders from customer

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 17	18:09:41	INSERT INTO Orders (OrderDate, CustomerID) VALUES (2024-02-20', 1). -- Adding an extra or...	2 row(s) affected Records: 2 Duplicates: 0 Warnings: 0	0.093 sec
✓ 18	18:09:51	INSERT INTO OrderDetails (OrderID, ProductID, Quantity) VALUES (6, 2, 1). -- John orders a L...	2 row(s) affected Records: 2 Duplicates: 0 Warnings: 0	0.156 sec
✓ 19	18:11:36	SELECT CustomerID FROM Orders GROUP BY CustomerID HAVING COUNT(OrderID) > 2	1 row(s) returned	0.000 sec / 0.000 sec
✓ 20	18:11:54	SELECT FirstName, LastName FROM Customers WHERE CustomerID IN (SELECT Custome...	1 row(s) returned	0.000 sec / 0.000 sec
✓ 21	18:13:47	CREATE PROCEDURE GetTotalOrders(IN CustID INT) BEGIN SELECT COUNT(*) AS Total...	0 row(s) affected	0.218 sec

Object Info Session

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27°C

18:13 06-02-2025

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

- dummy
- example
- job
- onlinestore
 - Tables
 - categories
 - orders
 - orderdetails
 - customers
 - products
 - Views

Administration Schemas

Information

No object selected

SQL File 4* SQL File 3* SQL File 4* SQL File 5* SQL File 5* SQL File 7* x

Don't Limit

```
128 END //
129
130 DELIMITER ;
131
132 -- Call Stored Procedure
133 CALL GetTotalOrders(1); -- To see total orders by John Doe
134
135 -- Trigger: Auto-update Inventory After Order Placement
136 DELIMITER //
137
```

Calling the created procedure to see the total orders by a customer

Result Grid

Filter Rows:

Export: Wrap Cell Content: X

	TotalOrders
1	4

Result 8 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
19	18:11:36	SELECT CustomerID FROM Orders GROUP BY CustomerID HAVING COUNT(OrderID) > 2	1 row(s) returned	0.000 sec / 0.000 sec
20	18:11:54	SELECT FirstName, LastName FROM Customers WHERE CustomerID IN (SELECT CustomerID FROM Orders GROUP BY CustomerID HAVING COUNT(OrderID) > 2)	1 row(s) returned	0.000 sec / 0.000 sec
21	18:13:47	CREATE PROCEDURE GetTotalOrders(IN CustID INT) BEGIN SELECT COUNT(*) AS TotalOrders FROM Orders WHERE CustomerID = CustID;	0 row(s) affected	0.218 sec
22	18:14:57	CREATE PROCEDURE GetTotalOrders(IN CustID INT) BEGIN SELECT COUNT(*) AS TotalOrders FROM Orders WHERE CustomerID = CustID;	Error Code: 1304. PROCEDURE GetTotalOrders already exists	0.140 sec
23	18:15:48	-- Call Stored Procedure CALL GetTotalOrders(1)	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Type here to search

27°C

18:16

06-02-2025

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHMAS

Filter objects

dummy

example

job

onlinestore

Tables

categories

orders

orderdetails

customers

products

Views

Administration Schemas

Information

No object selected

SQL File 4" SQL File 3" SQL File 4" SQL File 5" SQL File 5" SQL File 7" x

Don't Limit

```
131
132 -- Call Stored Procedure
133 CALL GetTotalOrders(1); -- To see total orders by John Doe
134
135 -- Trigger: Auto-update Inventory After Order Placement
136 DELIMITER //
137
138 CREATE TRIGGER UpdateInventory
139 AFTER INSERT ON OrderDetails
140 FOR EACH ROW
141 BEGIN
142     UPDATE Products
143     SET QuantityInStock = QuantityInStock - NEW.Quantity
144     WHERE ProductID = NEW.ProductID;
145 END //
146
147 DELIMITER ;
```

Update Inventory: A trigger that automatically update the inventory item in the products table after a new item is insert in the orders details

Output

Action Output

#	Time	Action	Message	Duration / Fetch
20	18:11:54	SELECT FirstName, LastName FROM Customers WHERE CustomerID IN (SELECT Custome...	1 row(s) returned	0.000 sec / 0.000 sec
21	18:13:47	CREATE PROCEDURE GetTotalOrders(IN CustID INT) BEGIN SELECT COUNT(*) AS Total...	0 row(s) affected	0.218 sec
22	18:14:57	CREATE PROCEDURE GetTotalOrders(IN CustID INT) BEGIN SELECT COUNT(*) AS Total...	Error Code: 1304. PROCEDURE GetTotalOrders already exists	0.140 sec
23	18:15:48	-- Call Stored Procedure CALL GetTotalOrders(1)	1 row(s) returned	0.000 sec / 0.000 sec
24	18:17:01	CREATE TRIGGER UpdateInventory AFTER INSERT ON OrderDetails FOR EACH ROW BEG...	0 row(s) affected	0.250 sec

Object Info Session

18:17 06-02-2025

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHMAS

Filter objects

- dummy
- example
- job
- onlinestore
 - Tables
 - categories
 - orders
 - orderdetails
 - customers
 - products
 - Views

Administration Schemas

Information

No object selected

SQL File 4* SQL File 3* SQL File 4* SQL File 5* SQL File 5* SQL File 7* x

Don't Limit

```
144 WHERE ProductID = NEW.ProductID;
145 END //
146
147 DELIMITER ;
148
149 -- Aggregate Function: Total Revenue
150 SELECT SUM(p.Price * od.Quantity) AS TotalRevenue
151 FROM OrderDetails od
152 JOIN Products p ON od.ProductID = p.ProductID;
153
```

Calculate the total revenue:
To find the total revenue of the order by using aggregate function "Sum"

Result Grid

Filter Rows:

Export:

Wrap Cell Content: 15

	TotalRevenue
1	4549.83

Result 9 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
21	18:13:47	CREATE PROCEDURE GetTotalOrders(IN CustID INT) BEGIN SELECT COUNT(*) AS Total...	0 row(s) affected	0.218 sec
22	18:14:57	CREATE PROCEDURE GetTotalOrders(IN CustID INT) BEGIN SELECT COUNT(*) AS Total...	Error Code: 1304. PROCEDURE GetTotalOrders already exists	0.140 sec
23	18:15:48	-- Call Stored Procedure CALL GetTotalOrders(1)	1 row(s) returned	0.000 sec / 0.000 sec
24	18:17:01	CREATE TRIGGER UpdateInventory AFTER INSERT ON OrderDetails FOR EACH ROW BEGI...	0 row(s) affected	0.250 sec
25	18:17:49	-- Aggregate Function: Total Revenue SELECT SUM(p.Price * od.Quantity) AS TotalRevenue F...	1 row(s) returned	0.015 sec / 0.000 sec

Object Info Session

Type here to search

27°C

18:18

06-02-2025

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

- dummy
- example
- job
- onlinestore
 - Tables
 - categories
 - orders
 - orderdetails
 - customers
 - products
 - Views

Administration Schemas

Information

No object selected

SQL File 4" SQL File 3" SQL File 4" SQL File 5" SQL File 5" SQL File 7" x

Don't Limit

```
152 JOIN Products p ON od.ProductID = p.ProductID;
153
154 -- Show All Tables
155 SHOW TABLES;
156
157 -- Describe Table Structures
158 DESCRIBE Products;
159 DESCRIBE Orders;
```

Result Grid

Filter Rows: Export: Wrap Cell Contents

Tables_in_onlinestore

- categories
- customers
- orderdetails
- orders
- products
- productsales

Result 10

Output

Action Output

#	Time	Action	Message	Duration / Fetch
22	18:14:57	CREATE PROCEDURE GetTotalOrders(IN CustID INT) BEGIN SELECT COUNT(*) AS Total...	Error Code: 1304. PROCEDURE GetTotalOrders already exists	0.140 sec
23	18:15:48	-- Call Stored Procedure CALL GetTotalOrders(1)	1 row(s) returned	0.000 sec / 0.000 sec
24	18:17:01	CREATE TRIGGER UpdateInventory AFTER INSERT ON OrderDetails FOR EACH ROW BEGI...	0 row(s) affected	0.250 sec
25	18:17:49	-- Aggregate Function: Total Revenue SELECT SUM(p.Price * od.Quantity) AS TotalRevenue F...	1 row(s) returned	0.015 sec / 0.000 sec
26	18:18:32	SHOW TABLES	6 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Type here to search

27°C 18:18 06-02-2025

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

- dummy
- example
- job
- onlinestore
 - Tables
 - categories
 - orders
 - orderdetails
 - customers
 - products
 - Views

Administration Schemas

Information

No object selected

SQL File 4" SQL File 3" SQL File 4" SQL File 5" SQL File 5" SQL File 7" x

Don't Limit

```
153
154 -- Show All Tables
155 • SHOW TABLES;
156
157 -- Describe Table Structures
158 • DESCRIBE Products;
159 • DESCRIBE Orders;
```

Result Grid

Field	Type	Null	Key	Default	Extra
ProductID	int	NO	PRI	auto_increment	
ProductName	varchar(100)	NO			
Price	decimal(10,2)	NO			
QuantityInStock	int	NO			
CategoryID	int	YES	MUL		

Result 11

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 23	18:15:48	Call Stored Procedure CALL GetTotalOrders(1)	1 row(s) returned	0.000 sec / 0.000 sec
✓ 24	18:17:01	CREATE TRIGGER UpdateInventory AFTER INSERT ON OrderDetails FOR EACH ROW BEG...	0 row(s) affected	0.250 sec
✓ 25	18:17:49	Aggregate Function: Total Revenue SELECT SUM(P.Price * od.Quantity) AS TotalRevenue F...	1 row(s) returned	0.015 sec / 0.000 sec
✓ 26	18:18:32	SHOW TABLES	6 row(s) returned	0.000 sec / 0.000 sec
✓ 27	18:19:40	DESCRIBE Products	5 row(s) returned	0.031 sec / 0.000 sec

Object Info Session

Type here to search

27°C 18:20 06-02-2025

To display the structure of products table (columns and datatypes)

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

- dummy
- example
- job
- onlinestore
 - Tables
 - categories
 - orders
 - orderdetails
 - customers
 - products
 - Views

Administration Schemas

Information

No object selected

SQL File 4" SQL File 3" SQL File 4" SQL File 5" SQL File 5" SQL File 7" x

Don't Limit

```
153
154 -- Show All Tables
155 • SHOW TABLES;
156
157 -- Describe Table Structures
158 • DESCRIBE Products;
159 • DESCRIBE Orders;
```

To display the structure of orders table (columns and datatypes)

Result Grid

Field	Type	Null	Key	Default	Extra
OrderID	int	NO	PRI	auto_increment	
OrderDate	date	NO			
CustomerID	int	YES	MUL		

Result 12 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 24	18:17:01	CREATE TRIGGER UpdateInventory AFTER INSERT ON OrderDetails FOR EACH ROW BEGI...	0 row(s) affected	0.250 sec
✓ 25	18:17:49	- Aggregate Function: Total Revenue SELECT SUM(p.Price * od.Quantity) AS TotalRevenue F...	1 row(s) returned	0.015 sec / 0.000 sec
✓ 26	18:18:32	SHOW TABLES	6 row(s) returned	0.000 sec / 0.000 sec
✓ 27	18:19:40	DESCRIBE Products	5 row(s) returned	0.031 sec / 0.000 sec
✓ 28	18:20:42	DESCRIBE Orders	3 row(s) returned	0.015 sec / 0.000 sec

Object Info Session

Type here to search

27°C 18:20 06-02-2025