

SQL Tutorial



SQL Introduction

- SQL stands for Structured Query Language.
- A query language is a kind of programming language & it is the standard language for interacting with Relational Databases.
- Using SQL we can manage data in a RDBMS(Relational Database Management System).
 1. Create new database & tables
 2. Insert Records
 3. Update Records
 4. Delete Records
 5. Retrieve/Read Records
- SQL is pronounced as “S-Q-L” or sometimes as “Sequel”.



SQL Tutorial

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Database

- **Data:-** Data is any sort of information which is stored in computer memory.
- **Database:-** A database is a systematic collection of data in an electronic system that allows data to be stored, easily accessed, manipulated and updated.

Different Types of Database

- Relational databases.
- Hierarchical database.
- Network database.
- Object-oriented database.
- NoSQL database.



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SQL Tutorial

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Relational Database

- A relational database organizes data into tables which can be linked—or related—based on data common to each.
- A table has records (rows) and fields (columns)

Student			
Student ID	Student Name	Age	Place
s1	Akhil	20	Trivandrum
s2	Manju	18	Ernakulam
s3	Shareef	13	Palakkad
s4	Praveen	32	Thrissur
s5	John	20	Trivandrum
s6	Akhil	18	Ernakulam
s7	Aneesh	14	Kottayam
s8	Lakshmi	20	Kozhikode
s9	Cyril	12	Ernakulam
s10	Santosh	28	Malappuram

Courses	
Course ID	Course Name
c1	Computer Hardware
c2	Networking
c3	Web Designing
c4	Graphic Designing
c5	Ms Office
c6	C++
c7	Java

Enrolment		
Enrolment ID	Student ID	Course ID
e1	s1	c1
e2	s7	c4
e3	s6	c2
e4	s5	c1
e5	s4	c5
e6	s1	c4
e7	s2	c6
e8	s3	c7
e9	s2	c4
e10	s4	c3

SQL Tutorial

Relational Database

- A **PRIMARY KEY** is a field in a table which uniquely identifies each row/record in a database table.

Student			
Student ID	Student Name	Age	Place
s1	Akhil	20	Trivandrum
s2	Manju	18	Ernakulam
s3	Shareef	13	Palakkad
s4	Praveen	32	Thrissur
s5	John	20	Trivandrum
s6	Akhil	18	Ernakulam
s7	Aneesh	14	Kottayam
s8	Lakshmi	20	Kozhikode
s9	Cyril	12	Ernakulam
s10	Santosh	28	Malappuram

Courses	
Course ID	Course Name
c1	Computer Hardware
c2	Networking
c3	Web Designing
c4	Graphic Designing
c5	Ms Office
c6	C++
c7	Java

Enrolment		
Enrolment ID	Student ID	Course ID
e1	s1	c1
e2	s7	c4
e3	s6	c2
e4	s5	c1
e5	s4	c5
e6	s1	c4
e7	s2	c6
e8	s3	c7
e9	s2	c4
e10	s4	c3

PRIMARY KEY

SQL Tutorial

Relational Database

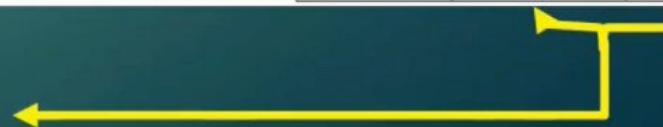
- A FOREIGN KEY is a field (or collection of fields) in one table, that refers to the PRIMARY KEY in another table.

Student			
Student ID	Student Name	Age	Place
s1	Akhil	20	Trivandrum
s2	Manju	18	Ernakulam
s3	Shareef	13	Palakkad
s4	Praveen	32	Thrissur
s5	John	20	Trivandrum
s6	Akhil	18	Ernakulam
s7	Aneesh	14	Kottayam
s8	Lakshmi	20	Kozhikode
s9	Cyril	12	Ernakulam
s10	Santosh	28	Malappuram

Courses	
Course ID	Course Name
c1	Computer Hardware
c2	Networking
c3	Web Designing
c4	Graphic Designing
c5	Ms Office
c6	C++
c7	Java

Enrolment		
Enrolment ID	Student ID	Course ID
e1	s1	c1
e2	s7	c4
e3	s6	c2
e4	s5	c1
e5	s4	c5
e6	s1	c4
e7	s2	c6
e8	s3	c7
e9	s2	c4
e10	s4	c3

FOREIGN KEY



SQL Tutorial

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Relational database management system (RDBMS)

- It is a program that allows you to create, update, and manipulate a relational database. Most relational database management systems use the SQL language to access the database.



MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

sys

Query 1

1 • CREATE DATABASE db1;

2 • create database db2;

Administration Schemas

Information

Schema: db1

Action Output

#	Time	Action	Message	Duration / Fetch
1	18:08:15	CREATE DATABASE db1	1 row(s) affected	0.531 sec

Object Info Session

Ready

Type here to search

75%

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Detailed description: This screenshot shows the MySQL Workbench interface. In the top-left, the title bar says 'MySQL Workbench' and 'Local instance MySQL80'. Below it is a menu bar with File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. To the right of the menu is a toolbar with various icons. The main area is titled 'Query 1' and contains two SQL statements: 'CREATE DATABASE db1;' and 'create database db2;'. The first statement is highlighted with a yellow selection bar. Below the query editor is a 'Navigator' panel showing 'SCHEMAS' with 'db1' and 'sys' listed. On the left, there's an 'Administration' tab and a 'Schemas' tab. Under 'Information', it says 'Schema: db1'. At the bottom, there's an 'Output' pane showing the execution log with one entry: '1 18:08:15 CREATE DATABASE db1' with a duration of '0.531 sec'. The bottom of the screen shows the Windows taskbar with the Start button, a search bar, and several pinned icons.

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Undo Ctrl+Z
Redo Ctrl+Y
Cut Ctrl+X
Copy Ctrl+C
Paste Ctrl+V
Delete
Select All Ctrl+A
Select Next Placeholder Ctrl+Shift+DownQuestion
Find
Format
Auto complete Ctrl+Space
Preferences...

Administration Schemas

Information:

Schema: db2

Action Output

#	Time	Action	Message	Duration / Fetch
2	18:17:32	CREATE DATABASE db1	Error Code: 1007. Can't create database 'db1'; database exists	0.032 sec
3	18:17:52	create database db2	1 row(s) affected	0.578 sec

Object Info Session

Query Completed

Type here to search

75% 6

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MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Schema

Navigator

SCHEMAS

Filter objects

db1 db2 sys

Administration Schemas

Information

Schema: db2

Object Info Session

Query Completed

Type here to search

Workbench Preferences

Productivity

Enable Code Completion in Editors

Automatically Start Code Completion

Use UPPERCASE keywords on completion

Comment: Normally keywords are shown and inserted as they come from the code editor configuration file. With this switch they are always upper-cased instead.

Max syntax error count: 100

Max number of result sets: 50

SQL Beautifier

Change keywords to UPPERCASE

OK Cancel

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Duration / Fetch 0.032 sec
0.578 sec

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db2
db3
db4
sys

SQL File 4* ×

1 DROP DATABASE db1;

Administration Schemas

No object selected

Output

#	Time	Action	Message	Duration / Fetch
1	18:28:27	DROP DATABASE db1	0 row(s) affected	0.297 sec

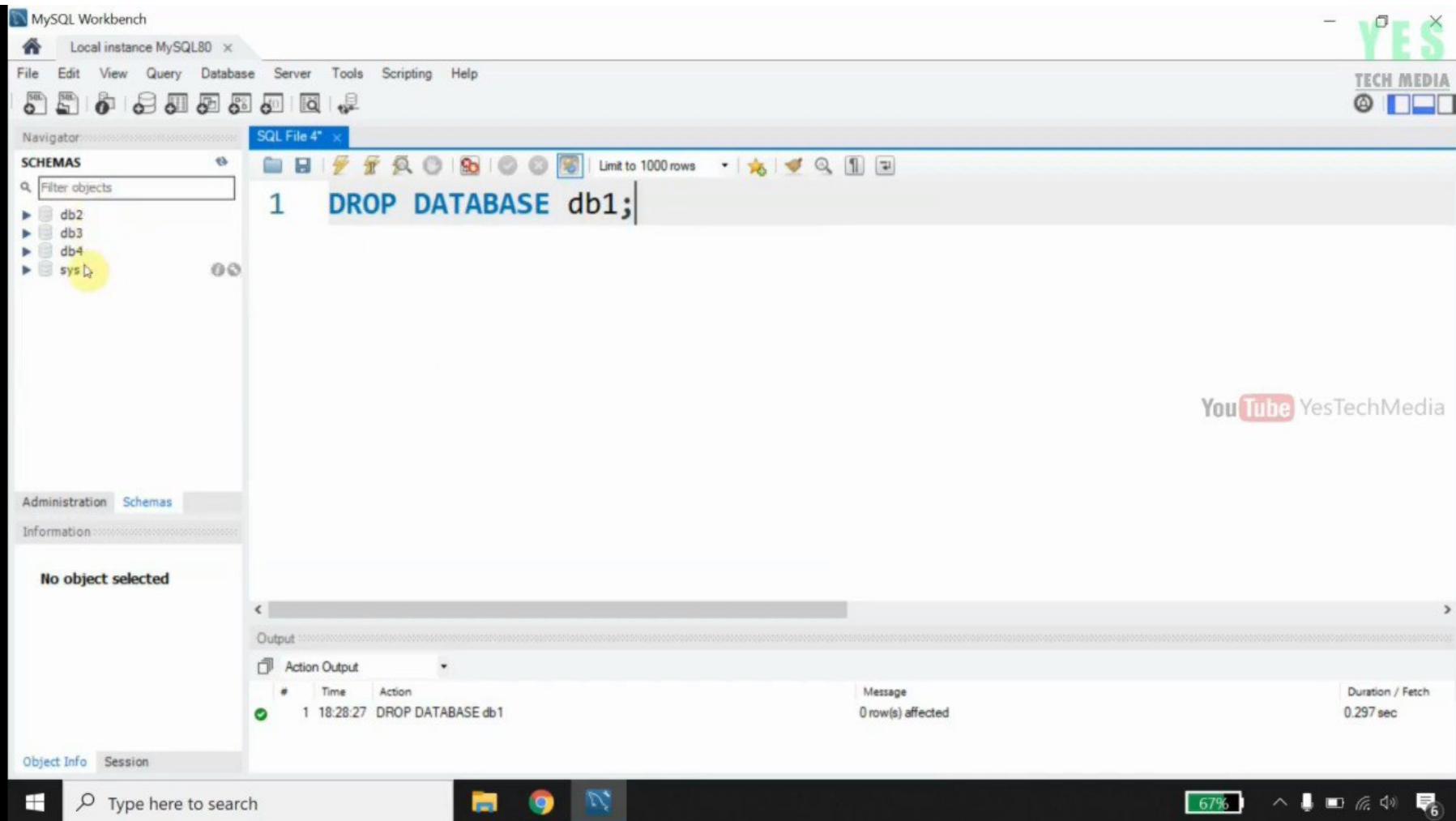
Object Info Session

Type here to search

67%

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SQL/MySQL Malayalam Tutorial



Create & Delete Table

Database - Excel

File Home Insert Page Layout Formulas Data Review View Developer Help Tell me what you want to do

D5 Student ID

A B C D E F G H I J K

1
2
3
4

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10

11

12

13

14

15

16

17

18

Student

Student ID	Student Name	Age	Place
s1	Akhil	20	Trivandrum
s2	Manju	18	Ernakulam
s3	Shareef	13	Palakkad
s4	Praveen	32	Thrissur
s5	John	20	Trivandrum
s6	Akhil	18	Ernakulam
s7	Aneesh	14	Kottayam
s8	Lakshmi	20	Kozhikode
s9	Cyril	12	Ernakulam
s10	Santosh	28	Malappuram

Sheet1 Sheet1 (2)

Type here to search

100% 175%

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File Home Insert Page Layout Formulas

Database - Excel

Sign in

sql new - Notepad

Student ID

A B C

1

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9

10

11

12

13

14

15

16

17

18

Sheet1 Sheet1 (2)

Data Types

VARCHAR(size) - Variable length string(letter, number, special characters).

INT - Integer.

FLOAT(size, d) - Floating point Number.

DOUBLE(size, d) - Floating point Number(large Numbers).

BOOLEAN - True(Non-Zero) or False(Zero).

DATE - Date (YYYY-MM-DD)

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Type here to search

100% ENG 4

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

Views

Stored Procedures

Functions

sys

Administration Schemas

Information

No object selected

Query Editor

1 USE db1;

2 CREATE TABLE student(

3 student_id VARCHAR(10) NOT NULL,

4 student_name VARCHAR(100) NOT NULL,

5 age INT NOT NULL,

6 place VARCHAR(100) NOT NULL,

7 PRIMARY KEY (student_id)

8);

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Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	01:27:28	CREATE TABLE student(student_id VARCHAR(10) NOT NULL, student_name VARCHAR(100) NOT NULL, ...	Error Code: 1046. No database selected Select the default DB to be used by double-clicking its name in the S...	0.015 sec
2	01:28:45	USE db1	0 row(s) affected	0.000 sec
3	01:28:45	CREATE TABLE student(student_id VARCHAR(10) NOT NULL, student_name VARCHAR(100) NOT NULL, ...	0 row(s) affected	1.375 sec

Object Info Session

Type here to search

100% ENG 4

The screenshot shows the MySQL Workbench interface. In the central pane, there is a SQL editor window containing the following code:

```
1 USE db1;
2 CREATE TABLE student(
3     student_id VARCHAR(10) NOT NULL,
4     student_name VARCHAR(100) NOT NULL,
5     age INT NOT NULL,
6     place VARCHAR(100) NOT NULL,
7     PRIMARY KEY (student_id)
8 );
```

Below the code, the output pane displays the results of the execution. It shows three log entries:

#	Time	Action	Message	Duration / Fetch
1	01:27:28	CREATE TABLE student(student_id VARCHAR(10) NOT NULL, student_name VARCHAR(100) NOT NULL, ...	Error Code: 1046. No database selected Select the default DB to be used by double-clicking its name in the S...	0.015 sec
2	01:28:45	USE db1	0 row(s) affected	0.000 sec
3	01:28:45	CREATE TABLE student(student_id VARCHAR(10) NOT NULL, student_name VARCHAR(100) NOT NULL, ...	0 row(s) affected	1.375 sec

The third entry is highlighted with a yellow circle around the number 3. The status bar at the bottom right shows "100% ENG 4".

MySQL Workbench Local instance MySQL80 x 84

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas db1 Tables student test1 Views Stored Procedures Functions sys

Query 1 / 1 Limit to 500 rows

```
1 • USE db1;
2 • CREATE TABLE test1(
3     student_id VARCHAR(10) NOT NULL,
4     student_name VARCHAR(100) NOT NULL,
5     age INT NOT NULL,
6     place VARCHAR(100) NOT NULL,
7     PRIMARY KEY (student_id)
8 );
```

Table: test1

Columns:

student_id	varchar(10)
	PK
student_name	varchar(100)
age	int
place	varchar(100)

Information

YouTube YesTechMedia

Output Action Output

#	Time	Action	Message	Duration / Fetch
3	01:28:45	CREATE TABLE student(student_id VARCHAR(10) NOT NULL, student_name VARCHAR(100) NOT NULL, age INT NOT NULL, place VARCHAR(100) NOT NULL, PRIMARY KEY (student_id))	0 row(s) affected	1.375 sec
4	01:30:27	USE db1	0 row(s) affected	0.000 sec
5	01:30:27	CREATE TABLE test1(student_id VARCHAR(10) NOT NULL, student_name VARCHAR(100) NOT NULL, age INT NOT NULL, place VARCHAR(100) NOT NULL, PRIMARY KEY (student_id))	0 row(s) affected	1.312 sec

Object Info Session

Type here to search

100% ENG 4

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

student

Views

Stored Procedures

Functions

sys

Query 1

1 · USE db1;

2

3 · DROP TABLE test1;

Administration Schemas

Information

No object selected

Output

Action Output

#	Time	Action	Message	Duration / Fetch
4	01:30:27	USE db1	0 row(s) affected	0.000 sec
5	01:30:27	CREATE TABLE test1(student_id VARCHAR(10) NOT NULL, student_name VARCHAR(100) NOT NULL, a...	0 row(s) affected	1.312 sec
6	01:31:08	DROP TABLE test1	0 row(s) affected	0.359 sec

Type here to search

100% ENG 4

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SQL/MySQL Malayalam Tutorial



Insert Records

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

- Tables could not be fetched
 - student
- Views could not be fetched
- Stored Procedures could not be fetched
- Functions could not be fetched

sys

SQL File 4* ×

1 SELECT * FROM student;

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: | Result Grid | Form Editor | Field Types

	student_id	student_name	age	place
*	HULL	HULL	HULL	HULL

Administration Schemas

No object selected

student 2 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	09:42:09	SELECT * FROM student LIMIT 0, 1000	0 row(s) returned	0.016 sec / 0.000 sec

Object Info Session

Type here to search

42% ENG 7

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MySQL Workbench Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables could not be fetched

student

Views could not be fetched

Stored Procedures could not be fetched

Functions could not be fetched

sys

SQL File 4*

Limit to 1000 rows

1 **INSERT INTO** student(student_id, student_name, age, place)

2 **VALUE**('s1', 'Akhil', 20, 'Trivandrum');

Administration Schemas

No object selected

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: | Result Grid | Form Editor

	student_id	student_name	age	place
*	HULL	HULL	HULL	HULL

Object Info Session student 2

Type here to search

44% ENG 7

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The screenshot shows the MySQL Workbench interface. In the SQL editor tab, there is a single query window titled 'SQL File 4*' containing the following SQL code:

```
1 INSERT INTO student(student_id, student_name, age, place)
2 VALUE('s1', 'Akhil', 20, 'Trivandrum');
```

The 'Information' panel below the editor shows a result grid for the 'student' table. The grid has four columns: student_id, student_name, age, and place. There is one row present with all values set to 'HULL'. On the right side of the 'Information' panel, there are two tabs: 'Result Grid' (which is currently selected) and 'Form Editor'.

Database - Excel

File Home Insert Page Layout Formulas Data Review View Developer Help Tell me what you want to do

G5 A B C D E F G H I J

2

3

4

5 Student ID Student Name Age Place

6 s1 Akhil 20 Trivandrum

7 s2 Manju 18 Ernakulam

8 s3 Shareef 13 Palakkad

9 s4 Praveen 32 Thrissur

10 s5 John 20 Trivandrum

11 s6 Akhil 20 Ernakulam

12 s7 Aneesh 14 Kottayam

13 s8 Lakshmi 20 Kozhikode

14 s9 Cyril 12 Ernakulam

15 s10 Santosh 28 Malappuram

16

17

Sheet1 Sheet1 (2)

Ready

Type here to search

44% 160%

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Student			
Student ID	Student Name	Age	Place
s1	Akhil	20	Trivandrum
s2	Manju	18	Ernakulam
s3	Shareef	13	Palakkad
s4	Praveen	32	Thrissur
s5	John	20	Trivandrum
s6	Akhil	20	Ernakulam
s7	Aneesh	14	Kottayam
s8	Lakshmi	20	Kozhikode
s9	Cyril	12	Ernakulam
s10	Santosh	28	Malappuram

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

- Tables could not be fetched
 - student
- Views could not be fetched
- Stored Procedures could not be fetched
- Functions could not be fetched

sys

SQL File 4* ×

Limit to 1000 rows

1 **INSERT INTO** student(student_id, student_name, age, place)
2 **VALUE**('s1', 'Akhil', 20, 'Trivandrum');

Administration Schemas

No object selected

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: | Result Grid | Form Editor

	student_id	student_name	age	place
*	HULL	HULL	HULL	HULL

Object Info Session student 2 × Apply Revert

Type here to search

44% ENG 7

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The screenshot shows the MySQL Workbench interface. In the top-left, the title bar says 'MySQL Workbench' and 'Local instance MySQL80'. Below it is a menu bar with File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. On the left, there's a 'Navigator' pane with 'SCHEMAS' and a tree view for 'db1' schema, which lists tables like 'student', views, stored procedures, and functions. Below that is an 'Information' pane with tabs for 'Administration' and 'Schemas', and a message 'No object selected'. In the center, there's a 'SQL File 4*' tab containing an SQL insert statement: 'INSERT INTO student(student_id, student_name, age, place) VALUE('s1', 'Akhil', 20, 'Trivandrum);'. At the bottom, there's a results grid showing one row with all columns set to 'HULL'. The bottom of the screen shows a taskbar with icons for File Explorer, Google Chrome, Microsoft Edge, and Excel, along with system status icons like battery level (44%), language (ENG), and notifications (7). A watermark for 'YES TECH MEDIA' is in the top right, and a YouTube channel link 'YesTechMedia' is in the middle right.

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator SQL File 4* ×

SCHEMAS Filter objects db1 Tables could not be fetched student Views could not be fetched Stored Procedures could not be fetched Functions could not be fetched sys

1 SELECT * FROM student;

Administration Schemas Information No object selected Result Grid Filter Rows: student_id student_name age place s1 Akhil 20 Trivandrum

Object Info Session student 3 × Apply Revert

Type here to search 44% ENG 7

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The screenshot shows the MySQL Workbench interface. In the top-left, the 'Navigator' pane displays the database schema with 'db1' selected, showing tables like 'student', views, stored procedures, and functions. The main area contains a SQL editor with the query 'SELECT * FROM student;'. Below the editor is a 'Result Grid' showing one row of data: student_id 's1', student_name 'Akhil', age '20', and place 'Trivandrum'. The 'Result Grid' tab is highlighted. At the bottom, there's an 'Information' pane and a taskbar with various icons and system status.

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables could not be fetched

student

Views could not be fetched

Stored Procedures could not be fetched

Functions could not be fetched

sys

Administration Schemas

Information

No object selected

Result Grid

Filter Rows:

Edit: Export/Import: Wrap Cell Content:

Result Grid

Object Info Session student 3

Type here to search

52% ENG 7

SQL File 4*

1 • INSERT INTO student

2 VALUES

3 ('s2', 'Manju', 18, 'Ernakulam'),

4 ('s3', 'Shareef', 13, 'Palakkad'),

5 ('s4', 'Praveen', 32, 'Thrissur'),

6 ('s5', 'John', 20, 'Trivandrum'),

7 ('s6', 'Akhil', 20, 'Ernakulam'),

8 ('s7', 'Aneesh', 14, 'Kottayam'),

9 ('s8', 'Lakshmi', 20, 'Kozhikode'),

10 ('s9', 'Cyril', 12, 'Ernakulam'),

11 ('s10', 'Santosh', 28, 'Malappuram')
I

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MySQL Workbench
Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

- Tables could not be fetched
 - student
- Views could not be fetched
- Stored Procedures could not be fetched
- Functions could not be fetched

sys

SQL File 4*

1 SELECT * FROM student;

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: | Result Grid | Form Editor | Field Types

No object selected

	student_id	student_name	age	place
s1	Akhil	20	Trivandrum	
s10	Santosh	28	Malappuram	
s2	Manju	18	Ernakulam	
s3	Shareef	13	Palakkad	
s4	Praveen	32	Thrissur	
s5	John	20	Trivandrum	
s6	Akhil	20	Ernakulam	
s7	Aneesh	14	Kottayam	
s8	Lakshmi	20	Kozhikode	
s9	Cyril	12	Ernakulam	
NULL	NULL	NULL	NULL	

Object Info Session student 4 x Apply Revert

Type here to search

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52% ENG 7

SQL/MySQL Malayalam Tutorial



Update Records

MySQL Workbench
Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables student Views Stored Procedures Functions

sys

SQL File 4* | Limit to 1000 rows

1 • USE db1;
2 • UPDATE student
3 SET place = 'Kannur'
4 WHERE student_id = 's1';

Administration Schemas

Information

No object selected

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: | Result Grid | Form Editor | Field Topics

	student_id	student_name	age	place
	s1	Akhil	20	Trivandrum
	s10	Santosh	28	Malappuram
	s2	Manju	18	Ernakulam
	s3	Shareef	13	Palakkad
	s4	Praveen	32	Thrissur
	s5	John	20	Trivandrum

Object Info Session student 1 x Apply Revant

Type here to search

61% ENG 7

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MySQL Workbench
Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables student

Views

Stored Procedures

Functions

sys

SQL File 4*

1 • USE db1;
2 • SELECT * FROM student;

Administration Schemas

No object selected

Information

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

	student_id	student_name	age	place
	s1	Akhil	20	Kannur
	s10	Santosh	28	Malappuram
	s2	Manju	18	Ernakulam
	s3	Shareef	13	Palakkad
	s4	Praveen	32	Thrissur
	s5	John	20	Trivandrum

Object Info Session student 2 x Result Grid Form Editor Field Topics

Type here to search

62% ENG 7

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MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables student

Views

Stored Procedures

Functions

sys

SQL File 4*

1 • USE db1;

2 • SELECT * FROM student; ◻

3

4 • UPDATE student

5 SET age = 25

6 WHERE student_id = 's10';

Administration Schemas

No object selected

Object Info Session

Type here to search

63% ENG 7

YES TECH MEDIA

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MySQL Workbench Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS db1

Tables student Views Stored Procedures Functions sys

SQL File 4* • USE db1;
• SELECT * FROM student;
3
4 • UPDATE student
5 SET age = 25
6 WHERE student_id = 's10';

Administration Schemas

Information No object selected

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: | Result Grid | Form Editor | Field Topics |

	student_id	student_name	age	place
s1	Akhil	20	Kannur	
s10	Santosh	25	Malappuram	
s2	Manju	18	Ernakulam	
s3	Shareef	13	Palakkad	
s4	Praveen	32	Thrissur	
s5	John	20	Trivandrum	

Object Info Session student 3 x Apply Revert

Type here to search 63% ENG 7

YES TECH MEDIA

YouTube YesTechMedia

SQL/MySQL Malayalam Tutorial



Copy Table

MySQL Workbench
Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

student

Views

Stored Procedures

Functions

sys

SQL File 4* SQL File 3*

1 • USE db1;
2 • SELECT * FROM student;
3 • CREATE TABLE student1 LIKE student;
4 • INSERT student1 SELECT * FROM student;
5

Administration Schemas

Information

Table: student

Columns:

	student_id	student_name	age	place
▶	s1	Akhil	20	Kannur
▶	s10	Santosh	25	Malappuram
▶	s2	Manju	18	Ernakulam
▶	s3	Shareef	13	Palakkad
▶	s4	Praveen	32	Thrissur

Object Info Session student 1 Apply Revert

Type here to search

81% ENG 7

YES TECH MEDIA B4

YouTube YesTechMedia

MySQL Workbench
Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

student (highlighted with yellow circle)

student1

Views

Stored Procedures

Functions

sys

SQL File 4* SQL File 3*

Limit to 1000 rows

1 • USE db1;
2 • SELECT * FROM student;
3 • CREATE TABLE student1 LIKE student;
4 • INSERT student1 SELECT * FROM student;
5

Administration Schemas

Information

Table: student

Columns:

<u>student_id</u>	varchar(10)	
	PK	
student_name	varchar(255)	
age	int	
place	varchar(255)	

Object Info Session

Type here to search

81% ENG 7

YES TECH MEDIA

YouTube YesTechMedia

MySQL Workbench
Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

student student1

Views Stored Procedures Functions

sys

SQL File 4* SQL File 3*

1 • USE db1;
2 • SELECT * FROM student1;
3 • CREATE TABLE student1 LIKE student;
4 • INSERT student1 SELECT * FROM student;
5

Administration Schemas

Information

Table: student1

Columns:

	student_id	student_name	age	place
s7	Aneesh	14	Kottayam	
s7	Aneesh	14	Kottayam	
s7	Aneesh	14	Kottayam	
s7	Aneesh	14	Kottayam	
s8	Lakshmi	20	Kozhikode	

Result Grid Form Editor

Object Info Session student1 2 Apply Revert

Type here to search

81% ENG 7

YES TECH MEDIA

YouTube YesTechMedia

SQL/MySQL Malayalam Tutorial



Delete Records

MySQL Workbench
Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

student

student1

Views

Stored Procedures

Functions

sys

SQL File 4* SQL File 3*

1 • USE db1;
2 • SELECT * FROM student;
3
4 • DELETE FROM student1
5 WHERE student_id = 's2';
6
7

YouTube YesTechMedia

Administration Schemas

Information

Table: student1

Columns:

	student_id	student_name	age	place
student_id	s1	Akhil	20	Kannur
student_name	s10	Santosh	25	Malappuram
age	s2	Manju	18	Ernakulam
place	s3	Shareef	13	Palakkad
	s4	Praveen	32	Thrissur

Object Info Session student 3 x Apply Revert

Type here to search

Result Grid Form Editor

82% ENG 7

The screenshot shows a MySQL Workbench interface. In the SQL editor, a script is being run with numbered steps. Step 4 contains a partially typed command 'DELETE FROM student1'. The 'student' table is selected in the results grid, showing records for students s1 through s4. The 'student1' table is currently selected, displaying its structure with columns student_id, student_name, age, and place. The 'student_id' column has a primary key constraint.

MySQL Workbench
Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

student student1

Views Stored Procedures Functions

sys

SQL File 4* SQL File 3*

1 • USE db1;
2 • SELECT * FROM student1;
3
4 • DELETE FROM student1
5 WHERE student_id = 's2';
6
7

YouTube YesTechMedia

Administration Schemas

Information

Table: student1

Columns:

	student_id	student_name	age	place
PK	s1	Akhil	20	Kannur
int	s10	Santosh	25	Malappuram
varchar(255)	s3	Shareef	13	Palakkad
int	s4	Praveen	32	Thrissur
varchar(255)	s5	John	20	Trivandrum

Result Grid Form Editor

Object Info Session student1 4 x Apply Revert

Type here to search

83% ENG 7

The screenshot shows the MySQL Workbench interface. In the top-left, the 'Navigator' pane displays the database schema with 'db1' selected, containing tables 'student' and 'student1'. The main area contains a script of SQL commands. The first two lines are highlighted in blue. The third line is a blank space. The fourth line starts with '4 •' indicating a continuation of a previous command. The fifth line contains 'WHERE student_id = 's2'' with 's2' in orange. Below the script, the 'Information' pane shows the 'student1' table with columns: student_id, student_name, age, and place. The data grid lists five rows with student IDs s1 through s5, names like Akhil, Santosh, Shareef, Praveen, and John, ages ranging from 13 to 32, and places like Kannur, Malappuram, Palakkad, Thrissur, and Trivandrum. A yellow circle highlights the cursor over the 'student_name' column of the third row. The bottom status bar shows battery level at 83%, language set to ENG, and a notification count of 7.

SQL/MySQL Malayalam Tutorial



Select Statement

MySQL Workbench
Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

student student1

Views

Stored Procedures

Functions

sys

SQL File 4* SQL File 3*

1 • USE db1;
2 • SELECT * FROM student;

3
4
5
6

YouTube YesTechMedia

Administration Schemas

Information

Table: student

Columns:

	student_id	student_name	age	place
s1	Akhil	20	Kannur	
s10	Santosh	25	Malappuram	
s2	Manju	18	Ernakulam	
s3	Shareef	13	Palakkad	
s4	Praveen	32	Thrissur	

Object Info Session student 8 Apply Restart

Type here to search

89% ENG 7

This screenshot shows the MySQL Workbench interface. The top navigation bar includes 'File', 'Edit', 'View', 'Query', 'Database', 'Server', 'Tools', 'Scripting', and 'Help'. Below the menu is a toolbar with various icons. The 'Navigator' pane on the left lists 'SCHEMAS' (db1, sys) and 'Tables' (student, student1). The main area contains two tabs: 'SQL File 4*' and 'SQL File 3*'. The 'SQL File 4*' tab displays the following SQL code:
1 • USE db1;
2 • SELECT * FROM student;
3
4
5
6
The 'SQL File 3*' tab is partially visible. Below the SQL tabs is an 'Information' pane showing the 'student' table structure. It has four columns: 'student_id' (varchar(10), PK), 'student_name' (varchar(255)), 'age' (int), and 'place' (varchar(255)). The table data grid shows five rows of student information. The 'student_id' column values are s1, s10, s2, s3, and s4. The 'student_name' column values are Akhil, Santosh, Manju, Shareef, and Praveen. The 'age' column values are 20, 25, 18, 13, and 32. The 'place' column values are Kannur, Malappuram, Ernakulam, Palakkad, and Thrissur. The 'student' tab is selected in the bottom navigation. The status bar at the bottom right shows battery level (89%), signal strength, and language (ENG). A watermark for 'YES TECH MEDIA' is in the top right corner.

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator SQL File 4* SQL File 3*

SCHEMAS db1

Tables student student1

Views Stored Procedures Functions

sys

1 • USE db1;

2 • SELECT student_id FROM student;

3

4

5

6

Administration Schemas

Information

Table: student

Columns:

student_id	varchar(10) PK
s1	
s10	
s2	
s3	
s4	

Object Info Session student 9 X

Result Grid Form Editor

Result Grid

89% 89% ENG 7

YES TECH MEDIA

YouTube YesTechMedia

The screenshot shows the MySQL Workbench interface. In the top left, there's a 'Navigator' pane showing the database schema with 'db1' selected, containing tables 'student' and 'student1'. Below it is an 'Information' pane for the 'student' table, displaying its columns: 'student_id' (PK, varchar(10)), 'student_name' (varchar(255)), 'age' (int), and 'place' (varchar(255)). The 'student_id' column has five rows: s1, s10, s2, s3, and s4. The main area contains a query editor with two tabs: 'SQL File 4*' and 'SQL File 3*'. The 'SQL File 3*' tab has the following code:
1 • USE db1;
2 • SELECT student_id FROM student;
3
4
5
6

MySQL Workbench
Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

student student1

Views

Stored Procedures

Functions

sys

SQL File 4* SQL File 3*

1 • USE db1;
2 • SELECT student_id, student_name FROM student;

3
4
5 I
6

Administration Schemas

Information

Table: student

Columns:

	student_id	student_name
s1	Akhil	
s10	Santosh	
s2	Manju	
s3	Shareef	
s4	Praveen	

Result Grid Form Editor

Object Info Session student 10 Apply Report

Type here to search

89% ENG 7

SQL/MySQL Malayalam Tutorial



Where clause

SQL/MySQL Malayalam Tutorial



Where clause

MySQL Workbench
Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

student student1

Views

Stored Procedures

Functions

sys

SQL File 4* SQL File 3*

1 • USE db1;
2 • SELECT * FROM student
3 WHERE place = 'Ernakulam';
4
5

YouTube YesTechMedia

Administration Schemas

No object selected

Information

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:

	student_id	student_name	age	place
▶	s2	Manju	18	Ernakulam
▶	s6	Akhil	20	Ernakulam
▶	s9	Cyril	12	Ernakulam
*	HULL	HULL	HULL	HULL

Result Grid Form Editor

Object Info Session student 18 Apply Revert

Type here to search

94% ENG 7

The screenshot shows the MySQL Workbench interface. In the top-left, the 'Navigator' pane displays the database schema with 'db1' selected, containing tables 'student' and 'student1'. The main workspace contains two tabs: 'SQL File 4*' and 'SQL File 3*'. The 'SQL File 4*' tab shows a query being typed:
1 • USE db1;
2 • SELECT * FROM student
3 WHERE place = 'Ernakulam';
4
5
The 'SQL File 3*' tab is visible but empty. Below the queries, the 'Result Grid' tab is active, showing the results of the last query. The results are displayed in a table with columns: student_id, student_name, age, and place. The data rows are:
s2 Manju 18 Ernakulam
s6 Akhil 20 Ernakulam
s9 Cyril 12 Ernakulam
* HULL HULL HULL HULL
The 'Result Grid' tab has a blue sidebar icon. At the bottom of the screen, there's a taskbar with icons for File Explorer, Google Chrome, Microsoft Word, and Microsoft Excel, along with a search bar and system status indicators.

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

student student1

Views

Stored Procedures

Functions

sys

SQL File 4* SQL File 3*

1 • USE db1;

2 • SELECT * FROM student

3 □ WHERE age 20;

4

5

YouTube YesTechMedia

Administration Schemas

Information

No object selected

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:

	student_id	student_name	age	place
▶	s1	Akhil	20	Kannur
▶	s5	John	20	Trivandrum
▶	s6	Akhil	20	Ernakulam
▶	s8	Lakshmi	20	Kozhikode
*	HULL	HULL	HULL	HULL

Object Info Session student 19 Apply Revert

Type here to search

94% ENG 7

The screenshot shows the MySQL Workbench interface. In the top-left, the Navigator pane displays the schema 'db1' with tables 'student' and 'student1'. The main area contains a query editor with the following code:

```
1 • USE db1;
2 • SELECT * FROM student
3 □ WHERE age 20;
4
5
```

The third line has a syntax error ('WHERE age 20;'). Below the editor is a results grid showing data from the 'student' table:

	student_id	student_name	age	place
▶	s1	Akhil	20	Kannur
▶	s5	John	20	Trivandrum
▶	s6	Akhil	20	Ernakulam
▶	s8	Lakshmi	20	Kozhikode
*	HULL	HULL	HULL	HULL

24

MySQL Workbench
Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

student student1

Views

Stored Procedures

Functions

sys

SQL File 4* SQL File 3*

1 • USE db1;
2 • SELECT * FROM student
3 □ WHERE age 20;
4
5

YouTube YesTechMedia

Administration Schemas

No object selected

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:

	student_id	student_name	age	place
s2	Manju	18	Ernakulam	
s3	Shareef	13	Palakkad	
s7	Aneesh	14	Kottayam	
s9	Cyril	12	Ernakulam	
*	HULL	HULL	HULL	HULL

Object Info Session student 20 Apply Revert

Type here to search

94% ENG 7

YES TECH MEDIA

MySQL Workbench
Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

student student1

Views

Stored Procedures

Functions

sys

SQL File 4* SQL File 3*

1 • USE db1;
2 • SELECT * FROM student
3 WHERE age < 20;
4
5

Administration Schemas

No object selected

Information

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

	student_id	student_name	age	place
s2	Manju	18	Ernakulam	
s3	Shareef	13	Palakkad	
s7	Aneesh	14	Kottayam	
s9	Cyril	12	Ernakulam	
*	HULL	HULL	HULL	HULL

Object Info Session student 20

Apply Revive

Type here to search

94% ENG 7

YES TECH MEDIA

YouTube YesTechMedia

SQL/MySQL Malayalam Tutorial



Distinct clause

SQL/MySQL Malayalam Tutorial



Distinct clause

MySQL Workbench
Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

student student1

Views

Stored Procedures

Functions

sys

SQL File 4* SQL File 3*

1 • USE db1;
2 • SELECT DISTINCT place
3 FROM student;
4
5
6
7

Result Grid Filter Rows Export Wrap Cell Content

place
Kannur
Malappuram
Ernakulam
Palakkad
Thrissur

No object selected

Object Info Session student 31 Read Only

Type here to search

100% ENG 7

YES TECH MEDIA

YouTube YesTechMedia

The screenshot shows the MySQL Workbench interface. In the top-left, the 'Navigator' pane displays the database schema with 'db1' selected, containing tables 'student' and 'student1'. The main query editor window contains a multi-line SQL script. The third line of the script is 'SELECT DISTINCT place FROM student;'. Below the script, the 'Result Grid' pane shows a table with one column 'place' containing five distinct values: Kannur, Malappuram, Ernakulam, Palakkad, and Thrissur. The 'Information' pane at the bottom left shows 'No object selected'. The bottom status bar includes a search bar, taskbar icons (Google Chrome, Microsoft Word, Microsoft Excel), battery level (100%), language (ENG), and a notification icon (7). A watermark for 'YES TECH MEDIA' and a YouTube channel link 'YesTechMedia' are visible in the top right.

SQL/MySQL Malayalam Tutorial



From clause

MySQL Workbench
Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

student student1

Views

Stored Procedures

Functions

sys

SQL File 4* SQL File 3*

1 • USE db1;
2 • SELECT *
3 FROM student;|
4
5
6
7

Administration Schemas

Information

No object selected

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

	student_id	student_name	age	place
>	s1	Akhil	20	Kannur
>	s10	Santosh	25	Malappuram
>	s2	Manju	18	Ernakulam
>	s3	Shareef	13	Palakkad
>	s4	Praveen	32	Thrissur

Object Info Session student 32

Result Grid Form Editor

Type here to search

100% ENG 6

YES TECH MEDIA

YouTube YesTechMedia

The screenshot shows the MySQL Workbench interface. In the top-left, the 'Navigator' pane displays the database schema with 'db1' selected, containing tables 'student' and 'student1'. The main area shows a query editor with the following SQL code:

```
1 • USE db1;
2 • SELECT *
3 FROM student;|
```

The 'Result Grid' pane below displays the data from the 'student' table:

	student_id	student_name	age	place
>	s1	Akhil	20	Kannur
>	s10	Santosh	25	Malappuram
>	s2	Manju	18	Ernakulam
>	s3	Shareef	13	Palakkad
>	s4	Praveen	32	Thrissur

The 'place' column for the fourth row ('s3') has a yellow cursor over it. The bottom status bar shows the session name 'student 32' and other system information.

MySQL Workbench
Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

student student1

Views

Stored Procedures

Functions

sys

SQL File 4* SQL File 3*

1 • USE db1;
2 • SELECT student_name
3 FROM student1;
4
5
6
7

Result Grid | Filter Rows: [] | Export: [] | Wrap Cell Content: []

No object selected

student_name
John
Akhil
Aneesh
Lakshmi
Cyril

Result Grid

Form Editor

Object Info Session student1 33 x Read Only

Type here to search

100% ENG 6

YES TECH MEDIA

YouTube YesTechMedia

SQL/MySQL Malayalam Tutorial



Orderby clause

MySQL Workbench
Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

student student1

Views

Stored Procedures

Functions

sys

SQL File 4* SQL File 3*

Limit to 1000 rows

2

3 • **SELECT * FROM student**

4 **ORDER BY student_name ASC;**

5

6

7

8

YouTube YesTechMedia

Administration Schemas

Information

Schema: db1

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:

	student_id	student_name	age	place
▶	s1	Akhil	20	Kannur
	s6	Akhil	20	Ernakulam
	s7	Aneesh	14	Kottayam
	s9	Cyril	12	Ernakulam
	s5	John	20	Trivandrum

Object Info Session student 39 Apply Refresh

Type here to search

100% ENG 6

YES TECH MEDIA

The screenshot shows the MySQL Workbench interface. In the top-left, the 'Navigator' pane displays the database schema with 'db1' selected, containing tables like 'student' and 'student1'. The main area shows a query editor with the following code:

```
2
3 • SELECT * FROM student
4 ORDER BY student_name ASC;
5
6
7
8
```

Below the code, the 'Result Grid' pane displays the data from the 'student' table:

	student_id	student_name	age	place
▶	s1	Akhil	20	Kannur
	s6	Akhil	20	Ernakulam
	s7	Aneesh	14	Kottayam
	s9	Cyril	12	Ernakulam
	s5	John	20	Trivandrum

The 'Result Grid' tab is active in the bottom navigation bar. The status bar at the bottom right shows battery level at 100%, network signal, and language set to ENG.

MySQL Workbench
Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

student student1

Views Stored Procedures Functions

sys

SQL File 4* SQL File 3*

1 • USE db1;

2

3 • SELECT * FROM student

4 ORDER BY student_name DESC;

5

6

7

YouTube YesTechMedia

Administration Schemas

Information

Schema: db1

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:

	student_id	student_name	age	place
>	s3	Shareef	13	Palakkad
	s10	Santosh	25	Malappuram
	s4	Praveen	32	Thrissur
	s2	Manju	18	Ernakulam
	s8	Lakshmi	20	Kozhikode

Object Info Session student 40

Result Grid Form Editor

Type here to search

100% ENG 6

The screenshot shows the MySQL Workbench interface. In the top-left, the 'Navigator' pane displays the database schema with 'db1' selected, containing tables 'student' and 'student1', and views, stored procedures, and functions. The main area contains a script editor with numbered SQL statements. Statements 1 through 7 are present, with statements 3, 4, and 5 being the actual query: 'SELECT * FROM student ORDER BY student_name DESC;'. Below the script editor is a results grid showing data from the 'student' table. The results grid has columns: student_id, student_name, age, and place. The data includes rows for Shareef (age 13), Santosh (age 25), Praveen (age 32), Manju (age 18), and Lakshmi (age 20). The bottom of the screen shows the Windows taskbar with various icons and system status.

MySQL Workbench
Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

student student1

Views Stored Procedures Functions

sys

SQL File 4* SQL File 3*

1 • USE db1;

2

3 • SELECT * FROM student

4 ORDER BY age DESC;

5

6

7

YouTube YesTechMedia

Administration Schemas

Information

Schema: db1

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:

	student_id	student_name	age	place
>	s4	Praveen	32	Thrissur
	s10	Santosh	25	Malappuram
	s1	Akhil	20	Kannur
	s5	John	20	Trivandrum
	s6	Akhil	20	Ernakulam

Object Info Session student 41 Apply Revert

Type here to search

100% ENG 6

The screenshot shows the MySQL Workbench interface. In the top-left, the 'Navigator' pane displays the database schema with 'db1' selected, containing tables 'student' and 'student1'. The main area shows a query editor with the following SQL code:

```
1 • USE db1;
2
3 • SELECT * FROM student
4 ORDER BY age DESC;
5
6
7
```

Below the code, the 'Result Grid' pane displays the data from the 'student' table:

	student_id	student_name	age	place
>	s4	Praveen	32	Thrissur
	s10	Santosh	25	Malappuram
	s1	Akhil	20	Kannur
	s5	John	20	Trivandrum
	s6	Akhil	20	Ernakulam

The 'Result Grid' tab is active in the bottom navigation bar. The status bar at the bottom right shows battery level at 100%, network signal, and language set to ENG.

MySQL Workbench Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS db1

Tables student student1

Views Stored Procedures Functions

sys

SQL File 4* SQL File 3*

1 • USE db1;

2

3 • SELECT * FROM student

4 ORDER BY age ASC;

5

6

7

YouTube YesTechMedia

Administration Schemas

Information Schema: db1

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:

	student_id	student_name	age	place
>	s9	Cyril	12	Ernakulam
	s3	Shareef	13	Palakkad
	s7	Aneesh	14	Kottayam
	s2	Manju	18	Ernakulam
	s1	Akhil	20	Kannur

Object Info Session student 42 Apply Revert

Type here to search

100% ENG 6

The screenshot shows the MySQL Workbench interface. In the top-left, the title bar says 'MySQL Workbench Local instance MySQL80'. Below it is a menu bar with File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. To the right of the menu is a toolbar with various icons. The main area has tabs for 'SQL File 4*' and 'SQL File 3*'. The 'SQL File 4*' tab contains a query: '1 • USE db1;', '2', '3 • SELECT * FROM student', '4 ORDER BY age ASC;'. Below the query is a result grid titled 'Result Grid' with columns: student_id, student_name, age, place. The data is as follows:

	student_id	student_name	age	place
>	s9	Cyril	12	Ernakulam
	s3	Shareef	13	Palakkad
	s7	Aneesh	14	Kottayam
	s2	Manju	18	Ernakulam
	s1	Akhil	20	Kannur

At the bottom, there are tabs for 'Object Info' and 'Session', and a status bar showing 'student 42' and application icons like Google Chrome and Microsoft Excel.

SQL/MySQL Malayalam Tutorial



Add or Modify Columns

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

- Tables
 - student
 - student1
- Views
- Stored Procedures
- Functions

sys

SQL File 4* SQL File 3*

1 • USE db1;

2 • SELECT * FROM student1;

3 • ALTER TABLE student1

4 • ADD contact INT(10) NOT NULL;

5

6

7

8

9

YouTube YesTechMedia

Administration Schemas

Information

Schema: db1

Action Output

#	Time	Action	Message	Duration / Fetch
1	2 17:05:14	SHOW TABLES	2 row(s) returned	0.156 sec / 0.000 sec
2	3 17:10:20	USE db1	0 row(s) affected	0.016 sec
3	4 17:10:56	USE db1	0 row(s) affected	0.000 sec
4	5 17:10:56	SELECT * FROM student1 LIMIT 0, 1000	9 row(s) returned	0.016 sec / 0.000 sec
5	6 17:25:51	ALTER TABLE student1 ADD contact INT(10) NOT NULL	0 row(s) affected, 1 warning(s): 1681 Integer display width is deprecated and will ...	2.172 sec

Object Info Session

Type here to search

80%

TECH MEDIA

YES

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

db1

- Tables
 - student
 - student1
- Views
- Stored Procedures
- Functions

sys

SQL File 4* SQL File 3*

```
1 • USE db1;
2 • SELECT * FROM student1;
3 • ALTER TABLE student1
4 • ADD contact INT(10) NOT NULL;
5
6
```

Result Grid

student_id	student_name	age	place	contact
s1	Akhil	20	Kannur	0
s10	Santosh	25	Malappuram	0
s3	Shareef	13	Palakkad	0
s4	Praveen	32	Thrissur	0

Administration Schemas

Information

Schema: db1

Object Info Session

Action Output

#	Time	Action	Message	Duration / Fetch
3	17:10:20	USE db1	0 row(s) affected	0.016 sec

80% Type here to search ENG

YES TECH MEDIA

YouTube YesTechMedia

Result Grid Form Editor

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

student student1

Views

Stored Procedures

Functions

sys

SQL File 4* SQL File 3*

1 • USE db1;

2 • SELECT * FROM student1;

3 • ALTER TABLE student1

4 □ MODIFY contact VARCHAR(10) NULL

I

5

6

Result Grid

Filter Rows:

Edit: Export/Import: Wrap Cell Content:

	student_id	student_name	age	place	contact
▶	s1	Akhil	20	Kannur	0
▶	s10	Santosh	25	Malappuram	0
▶	s3	Shareef	13	Palakkad	0
▶	s4	Praveen	32	Thrissur	0

Administration Schemas

Information

Schema: db1

student1 3 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
3	17:10:20	USE db1	0 row(s) affected	0.016 sec

Object Info Session

Type here to search

79%

81

YES TECH MEDIA

YouTube YesTechMedia

Result Grid

Form Editor

Apply Revert

SQL/MySQL Malayalam Tutorial



Rename or Delete Columns

MySQL Workbench
Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

db1

- Tables
 - student
 - student1
- Views
- Stored Procedures
- Functions

sys

SQL File 4* SQL File 3*

```
1 • USE db1;
2 • SELECT * FROM student1;
3
4 • ALTER TABLE student1
5     RENAME COLUMN contact TO student_contact;
6
7
8
```

Administration Schemas

Information

Table: student1

Columns:

	student_id	student_name	age	place	student_contact
>	s1	Akhil	20	Kannur	0
	s10	Santosh	25	Malappuram	0
	s3	Shareef	13	Palakkad	0
	s4	Praveen	32	Thrissur	0
	s5	John	20	Trivandrum	0
	s6	Akhil	20	Ernakulam	0

Object Info Session student1 5 x Apply Reset

Type here to search

YES TECH MEDIA

YouTube YesTechMedia

Result Grid Form Editor Field Types

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

student

student1

Views

Stored Procedures

Functions

sys

SQL File 4* SQL File 3*

1 • USE db1;

2 • SELECT * FROM student1;

3

4 • ALTER TABLE student1

5 DROP COLUMN student_contact;

6

7

8

9

YouTube YesTechMedia

Administration Schemas

Information

Table: student1

Columns:

	student_id	student_name	age	place
PK	s1	Akhil	20	Kannur
int	s10	Santosh	25	Malappuram
varchar(255)	s3	Shareef	13	Palakkad
varchar(10)	s4	Praveen	32	Thrissur

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Contents: Result Grid Form Editor

Object Info Session student1 6 Apply Report

Type here to search

74% ENG 1

YES TECH MEDIA

The screenshot shows the MySQL Workbench interface. In the top-left, the 'Navigator' pane displays the database schema with 'db1' selected, containing 'Tables' like 'student' and 'student1'. The main area contains two tabs: 'SQL File 4*' and 'SQL File 3*', with the second tab active. It shows a sequence of SQL commands: 'USE db1;', 'SELECT * FROM student1;', an empty line, 'ALTER TABLE student1', 'DROP COLUMN student_contact;', followed by several empty lines (6, 7, 8, 9). Below the SQL editor is a 'Result Grid' showing data from the 'student1' table. The grid has columns: student_id, student_name, age, and place. The data includes rows for s1 (Akhil, 20, Kannur), s10 (Santosh, 25, Malappuram), s3 (Shareef, 13, Palakkad), and s4 (Praveen, 32, Thrissur). The bottom of the screen shows the Windows taskbar with various icons and a system tray indicating battery level at 74%, language set to ENG, and a notification icon.

SQL/MySQL Malayalam Tutorial



Truncate vs Drop Tables

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

student student1

Views

Stored Procedures

Functions

sys

SQL File 4* SQL File 3*

1 • USE db1;

2 • SELECT * FROM student1;

3

4 • TRUNCATE student1;

5

6

7

8

Administration Schemas

Information

Table: student1

Columns:

student_id	student_name	age	place
HULL	HULL	HULL	HULL
*			

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content: Result Grid Form Editor

Object Info Session student1 7 Apply Revert

Type here to search

72% ENG 1

YES TECH MEDIA

YouTube YesTechMedia

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

student

Views

Stored Procedures

Functions

sys

SQL File 4* SQL File 3*

1 • USE db1;

2 • SELECT * FROM student1; []

3

4 • DROP TABLE student1;

5

6

7

8

Administration Schemas

Information

Table: student

Columns:

<u>student_id</u>	varchar(10)	
	PK	
student_name	varchar(255)	
age	int	
place	varchar(255)	

Object Info Session

Type here to search

72%

YES TECH MEDIA

YouTube YesTechMedia

This screenshot shows the MySQL Workbench interface. The left sidebar displays the database schema with 'db1' selected, containing a 'Tables' node with 'student'. The main window has two tabs: 'SQL File 4*' and 'SQL File 3*', with the second tab active. It contains the following SQL code:

```
1 • USE db1;
2 • SELECT * FROM student1; [ ]
3
4 • DROP TABLE student1;
5
6
7
8
```

The 'student' table information panel on the left shows the following details:

Table: student		
Columns:		
<u>student_id</u>	varchar(10)	
	PK	
student_name	varchar(255)	
age	int	
place	varchar(255)	

The bottom taskbar includes icons for File Explorer, Google Chrome, Task View, and a search bar. The system tray shows battery level at 72%, network status, volume, and language settings.

SQL/MySQL Malayalam Tutorial



First & Last Record

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

student

student1

Views

Stored Procedures

Functions

sys

SQL File 4* SQL File 3*

1 • USE db1;

2

3 • SELECT * FROM student

4 ORDER BY student_id ASC

5 LIMIT 1;

6

7

8

Administration Schemas

Information

Table: student

Columns:

	student_id	student_name	age	place
s1	Akhil	20	Kannur	
*	HULL	HULL	HULL	

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

Fetch rows:

Result Grid

Form Editor

Object Info Session student 26

Type here to search

59%

YouTube YesTechMedia

YES TECH MEDIA

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

student

student1

Views

Stored Procedures

Functions

sys

SQL File 4* SQL File 3*

1 • USE db1;

2

3 • SELECT * FROM student

4 ORDER BY student_id DESC

5 LIMIT 1;

6

7

8

Administration Schemas

Information

Table: student

Columns:

	student_id	student_name	age	place
s9	Cyril	12	Ernakulam	
*	HULL	HULL	HULL	

Result Grid Form Editor

Object Info Session student 27 Apply Review

Type here to search

59% ENG 1

YES TECH MEDIA

YouTube YesTechMedia

This screenshot shows the MySQL Workbench interface. The top navigation bar includes 'File', 'Edit', 'View', 'Query', 'Database', 'Server', 'Tools', 'Scripting', and 'Help'. The 'Navigator' panel on the left lists 'SCHEMAS' (db1) and 'Tables' (student, student1). The main area contains two tabs: 'SQL File 4*' and 'SQL File 3*'. The SQL code in 'SQL File 4*' is: '1 • USE db1;', '2', '3 • SELECT * FROM student', '4 ORDER BY student_id DESC', '5 LIMIT 1;'. Below the code is a 'Result Grid' showing one row from the 'student' table: student_id 's9', student_name 'Cyril', age '12', and place 'Ernakulam'. The bottom status bar shows battery level at 59%, language set to ENG, and a notification icon.

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

student

student1

Views

Stored Procedures

Functions

sys

SQL File 4* SQL File 3*

1 • USE db1;

2

3 • SELECT * FROM student

4 ORDER BY student_id DESC

5 LIMIT 2;

6

7

8

Administration Schemas

Information

Table: student

Columns:

	student_id	student_name	age	place
▶	s9	Cyril	12	Ernakulam
▶	s8	Lakshmi	20	Kozhikode
*	NULL	NULL	NULL	NULL

Result Grid | Filter Rows: [] | Edit: [] | Export/Import: [] | Wrap Cell Content: [] | Fetch rows: []

Result Grid

Form Editor

Object Info Session student 28

Type here to search

59%

YouTube YesTechMedia

YES TECH MEDIA

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

student student1

Views

Stored Procedures

Functions

sys

SQL File 4* SQL File 3*

1 • USE db1;

2

3 • SELECT * FROM student

4 ORDER BY student_id ASC

5 LIMIT 2;

6

7

8

YouTube YesTechMedia

Administration Schemas

Information

Table: student

Columns:

	student_id	student_name	age	place
▶	s1	Akhil	20	Kannur
▶	s10	Santosh	25	Malappuram
*				

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: | Fetch rows: | Result Grid | Form Editor

Object Info Session student 29

Type here to search

59% ENG

YES TECH MEDIA

SQL/MySQL Malayalam Tutorial



Random Record Selection

MySQL Workbench
Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

student student1

Views

Stored Procedures

Functions

sys

SQL File 4* SQL File 3*

1 • USE db1;

2

3 • SELECT * FROM student

4 ORDER BY rand()

5 LIMIT 1;

6

7

8

Administration Schemas

Information

Table: student

Columns:

	student_id	student_name	age	place
s4	Praveen	32	Thrissur	
*	HULL	HULL	HULL	

Result Grid Form Editor

Object Info Session student 31

Type here to search

56% ENG 1

YES TECH MEDIA

YouTube YesTechMedia

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

student

student1

Views

Stored Procedures

Functions

sys

SQL File 4* SQL File 3*

1 • USE db1;

2

3 • SELECT * FROM student

4 ORDER BY rand()

5 LIMIT 2;

6

7

8

YouTube YesTechMedia

Administration Schemas

Information

Table: student

Columns:

	student_id	student_name	age	place
▶	s2	Manju	18	Ernakulam
▶	s7	Aneesh	14	Kottayam
*				

Result Grid Form Editor

Object Info Session student 34

Type here to search

56% ENG ①

The screenshot shows the MySQL Workbench interface. In the top-left, the 'Navigator' pane displays the database schema, specifically the 'db1' schema which contains tables like 'student' and 'student1'. The main area shows a query editor with the following SQL code:

```
1 • USE db1;
2
3 • SELECT * FROM student
4 ORDER BY rand()
5 LIMIT 2;
```

The result grid below shows two rows of data from the 'student' table:

	student_id	student_name	age	place
▶	s2	Manju	18	Ernakulam
▶	s7	Aneesh	14	Kottayam
*				

The bottom status bar indicates the session name 'student 34' and the system status '56% ENG ①'.

SQL/MySQL Malayalam Tutorial



Select As Statement

MySQL Workbench Local instance MySQL80 X

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

student student1

Views Stored Procedures Functions

sys

SQL File 4* SQL File 3*

1 • USE db1;

2

3 • SELECT * FROM student;

4

5 • SELECT student_name AS 'first_name',

6 age, place

7 FROM student;

8

Administration Schemas

Information

Result Grid Filter Rows Export Wrap Cell Content

Table: student

Columns:

	student_id	student_name	age	place
Akhil	varchar(10)	Santosh	25	Malappuram
Manju	PK	Manju	18	Ernakulam
Shareef	int	Shareef	13	Palakkad
Praveen	varchar(255)	Praveen	32	Thrissur

Object Info Session student 39 X Read Only

Type here to search

YES TECH MEDIA

YouTube YesTechMedia

Result Grid Form Editor

MySQL Workbench
Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

student

student1

Views

Stored Procedures

Functions

sys

SQL File 4* SQL File 3*

1 • USE db1;

2

3 • SELECT * FROM student;

4

5 • SELECT student_name AS 'first_name',
6 age AS 'student_age', place
7 FROM student;

8

Administration Schemas

Information

Table: student

Columns:

	student_id	student_name	age	place
PK	varchar(10)	varchar(255)	int	varchar(255)

Result Grid | Filter Rows: Export: Wrap Cell Content: >

first_name	student_age	place
Akhil	20	Kannur
Santosh	25	Malappuram
Manju	18	Ernakulam
Shareef	13	Palakkad
Praveen	32	Thrissur

Object Info Session student 40 student 41 < X Read Only

Type here to search

YES TECH MEDIA

YouTube YesTechMedia

Result Grid Form Editor

SQL/MySQL Malayalam Tutorial



Arithmetic Operators

SQL/MySQL Malayalam Tutorial



Arithmetic Operators

MySQL Workbench
Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator SQL File 14* SQL File 16* SQL File 17*

SCHEMAS db1 sys

/* OPERATORS*/
/* SQL Arithmetic Operators*/
SELECT 10 + 20 AS result;

YouTube YesTechMedia

Administration Schemas Information No object selected Result Grid Filter Rows: Export: Wrap Cell Content: result 30 Read Only Result 1 Output Action Output Object Info Session

Type here to search 100% ENG

The screenshot shows the MySQL Workbench interface. In the central query editor, a multi-line SQL script is displayed. The first two lines are comments: /* OPERATORS*/ and /* SQL Arithmetic Operators*/. The third line contains a SELECT statement: SELECT 10 + 20 AS result;. The fourth line is another comment: 4. The fifth line is a result row from the execution of the query, showing the column 'result' with the value '30'. The 'Result Grid' tab is active in the bottom navigation bar. The status bar at the bottom right shows battery level at 100%, network connectivity, and language set to ENG.

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator SQL File 14* SQL File 16* SQL File 17*

SCHEMAS Filter objects

db1 Tables Views Stored Procedures Functions

sys

/* OPERATORS*/

/* SQL Arithmetic Operators*/

SELECT 10 * 20 AS result;

No object selected

Result Grid | Filter Rows: Export: Wrap Cell Content: Result 4 × Read Only

result
200

Action Output

Type here to search

100% ENG

YES TECH MEDIA

YouTube YesTechMedia

```
1 /* OPERATORS*/
2
3 /* SQL Arithmetic Operators*/
4
5 • SELECT 10 * 20 AS result;
6
7
```

SQL/MySQL Malayalam Tutorial



Comparison Operators

MySQL Workbench
Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator SQL File 14* SQL File 16* SQL File 17*

SCHEMAS db1 Tables Views Stored Procedures Functions sys

13 /* SQL Comparison Operators*/
14
15 • SELECT 10 = 10 AS result;
16
17
18
19

No object selected

Result Grid Filter Rows: Export: Wrap Cell Content: Result 7 x Read Only

Object Info Session Action Output

Type here to search

YES TECH MEDIA

YouTube YesTechMedia

100% ENG

The screenshot shows the MySQL Workbench interface. In the central query editor, there is a SQL script. The 15th line contains a comparison operator '10 = 10' which is highlighted in yellow. The results grid below shows a single row with a column named 'result' containing the value '1'. The status bar at the bottom right indicates 'Read Only'. The top right corner features a watermark for 'YES TECH MEDIA'.

MySQL Workbench
Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator SQL File 14* SQL File 16* SQL File 17*

SCHEMAS db1 sys

13 /* SQL Comparison Operators*/
14
15 • SELECT 20 < 10 AS result;
16
17
18
19

No object selected

Result Grid | Filter Rows: Export: Wrap Cell Content: Result 15 x Read Only

Output Action Output

100% ENG

YES TECH MEDIA

YouTube YesTechMedia

Type here to search

File Explorer Chrome Task View

20

MySQL Workbench
Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator SQL File 14* SQL File 16* SQL File 17*

SCHEMAS db1 Tables Views Stored Procedures Functions sys

```
13 /* SQL Comparison Operators*/
14
15 • USE db1;
16 • SELECT * FROM student
17 WHERE age > 20;
18
```

YouTube YesTechMedia

Administration Schemas Information

No object selected

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:

student_id	student_name	age	place
s10	Santosh	25	Malappuram
s4	Praveen	32	Thrissur
*			

student 18 x Apply Revert

Output

Action Output

100% ENG

The screenshot shows a MySQL Workbench interface. In the SQL editor tab, a query is being typed to filter students based on their age. The WHERE clause includes a comparison operator (>) followed by the value 20. The results grid displays two rows of data from a 'student' table, showing student IDs s10 and s4, names Santosh and Praveen, ages 25 and 32 respectively, and places Malappuram and Thrissur. The MySQL Workbench interface includes a top bar with tabs for Navigator, SQL File 14*, SQL File 16*, and SQL File 17*. On the right side, there are panes for Administration, Schemas, and Information, with the Information pane currently active and showing 'No object selected'. A watermark for 'YES TECH MEDIA' is visible in the top right corner.

SQL/MySQL Malayalam Tutorial



Logical Operators

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

Views

Stored Procedures

Functions

sys

SQL File 14* SQL File 16* SQL File 17*

25 /* SQL Logical Operators*/
26
27 • USE db1;
28 • SELECT * FROM student
29 WHERE age = 18 AND place = 'Ernakulam';
30

YouTube YesTechMedia

Administration Schemas

Information

No object selected

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

	student_id	student_name	age	place
•	s2	Manju	18	Ernakulam
*	NULL	NULL	NULL	NULL

Result Grid

Form Editor

student 2

Output

Action Output

Object Info Session

Type here to search

100%

YES TECH MEDIA

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator SQL File 14* SQL File 16* SQL File 17*

SCHEMAS db1 sys

34
35
36
37 • **SELECT * FROM student**
38 **WHERE age BETWEEN 25 AND 30;**
39

Administration Schemas Information

No object selected

Result Grid Filter Rows: Edit Export/Import: Wrap Cell Content:

student_id	student_name	age	place
s10	Santosh	25	Malappuram
		HULL	HULL

student 5 ×

Output

Action Output

Object Info Session

100% ENG

YES TECH MEDIA

You Tube YesTechMedia

The screenshot shows the MySQL Workbench interface. In the central pane, there is a 'Result Grid' showing the output of a SQL query. The query is:

```
SELECT * FROM student
WHERE age BETWEEN 25 AND 30;
```

The result grid displays the following data:

student_id	student_name	age	place
s10	Santosh	25	Malappuram
		HULL	HULL

The 'age' column contains the value '25' for the first row, which is highlighted with a yellow circle. The 'place' column contains the value 'Malappuram' for the first row. The 'age' and 'place' columns also have the value 'HULL' in their respective cells of the second row.

MySQL Workbench
Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

- Tables
- Views
- Stored Procedures
- Functions

sys

SQL File 14* SQL File 16* SQL File 17*

34

35

36

37 • **SELECT * FROM student**

38 **WHERE age BETWEEN 20 AND 30;**

39

YouTube YesTechMedia

Administration Schemas

Information

No object selected

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

student_id	student_name	age	place
s1	Akhil	20	Kannur
s10	Santosh	25	Malappuram
s5	John	20	Trivandrum
s6	Akhil	20	Ernakulam
s9	Ishkhanvi	20	Kozhikode

student 6 x

Output

Action Output

Result Grid

Form Editor

Apply

Revert

Object Info Session

Type here to search

100% ENG

The screenshot shows the MySQL Workbench interface. In the SQL editor tab, a query is run: "SELECT * FROM student WHERE age BETWEEN 20 AND 30;". The results are displayed in a grid. The grid has columns: student_id, student_name, age, and place. The data includes rows for students s1, s10, s5, s6, and s9. The 'age' column for student s1 is highlighted with a yellow circle. The MySQL Workbench interface includes a Navigator pane, a Schemas pane, and various toolbars and panes for administration and session management.

student_id	student_name	age	place
s1	Akhil	20	Kannur
s10	Santosh	25	Malappuram
s5	John	20	Trivandrum
s6	Akhil	20	Ernakulam
s9	Ishkhanvi	20	Kozhikode

MySQL Workbench Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

- Tables
- Views
- Stored Procedures
- Functions

sys

SQL File 14* SQL File 16* SQL File 17*

46

47 • **SELECT * FROM student**

48 WHERE EXISTS(SELECT age FROM student WHERE age > 20);

49

50

51

YouTube YesTechMedia

Administration Schemas

Information

No object selected

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

student_id	student_name	age	place
s1	Akhil	20	Kannur
s10	Santosh	25	Malappuram
s2	Manju	18	Ernakulam
s3	Shareef	13	Palakkad
s4	Dinesan	22	Thrissur

student 8

Output

Object Info Session

Action Output

99%

YES TECH MEDIA

Type here to search

Google Chrome Microsoft Edge

MySQL Workbench
Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator SQL File 14* SQL File 16* SQL File 17*

SCHEMAS db1 Tables Views Stored Procedures Functions sys

Filter objects

46

47 • **SELECT * FROM student**

48 WHERE EXISTS(SELECT age FROM student WHERE age>40);

49

50

51

YouTube YesTechMedia

Administration Schemas Information

No object selected

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:

student_id	student_name	age	place
NULL	NULL	NULL	NULL

student 9

Output

Action Output

Object Info Session

99% ENG

YES TECH MEDIA

Type here to search

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator SQL File 14* SQL File 16* SQL File 17*

SCHEMAS db1 sys

55
56
57

58 • **SELECT * FROM student**

59 WHERE place IN('Malappuram', 'Trivandrum');

60

Administration Schemas Information

No object selected

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:

student_id	student_name	age	place
s10	Santosh	25	Malappuram
s5	John	20	Trivandrum
*			

student 10 x Apply Revert

Action Output

98% ENG

YES TECH MEDIA

YouTube YesTechMedia

Type here to search

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator SQL File 14* SQL File 16* SQL File 17*

SCHEMAS db1 sys

Filter objects

67

68 • USE db1;

69 • SELECT * FROM student

70 WHERE student_name LIKE 'akhil';

71 | I

72

Administration Schemas

Information No object selected

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:

student_id	student_name	age	place
s1	Akhil	20	Kannur
s6	Akhil	20	Ernakulam
*	HULL	HULL	HULL

student 12 student 13

Output

Object Info Session Action Output

97% ENG

YES TECH MEDIA

YouTube YesTechMedia

The screenshot shows the MySQL Workbench interface. In the top-left, the title bar says 'MySQL Workbench' and 'Local instance MySQL80'. Below it is a menu bar with 'File', 'Edit', 'View', 'Query', 'Database', 'Server', 'Tools', 'Scripting', and 'Help'. To the right of the menu is a toolbar with various icons. The main area has three tabs: 'SQL File 14*', 'SQL File 16*' (which is active), and 'SQL File 17*'. The SQL code in the tab includes several numbered lines, starting with '67' and ending with '72'. Line 68 starts with a bullet point followed by 'USE db1;'. Line 69 starts with another bullet point followed by 'SELECT * FROM student'. Line 70 starts with 'WHERE student_name LIKE 'akhil'' followed by a semicolon. Line 71 has a cursor 'I' positioned after the closing parenthesis of the WHERE clause. Line 72 is blank. Below the SQL editor is a 'Result Grid' section. It has a header row with columns 'student_id', 'student_name', 'age', and 'place'. There are four data rows: the first row ('s1') is normal, the second row ('s6') is highlighted with a blue background and white text, and the third row has all cells containing 'HULL'. At the bottom of the grid are buttons for 'Result Grid', 'Form Editor', and a dropdown arrow. Below the grid, there are tabs for 'student 12' and 'student 13'. The bottom of the screen shows a taskbar with icons for File Explorer, Google Chrome, and FileZilla. On the far right, there's a system tray with battery status (97%), signal strength, volume, and language settings (ENG). A watermark for 'YES TECH MEDIA' is in the top right, and a YouTube channel link 'YouTube YesTechMedia' is in the middle right.

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables Views Stored Procedures Functions

sys

SQL File 14* SQL File 16* SQL File 17*

Limit to 1000 rows

67

68 • USE db1;

69 • SELECT * FROM student

70 WHERE student_name LIKE 'a%';

71

72

YouTube YesTechMedia

Administration Schemas

Information

No object selected

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:

student_id	student_name	age	place
s1	Akhil	20	Kannur
s6	Akhil	20	Ernakulam
s7	Aneesh	14	Kottayam
*	HULL	HULL	HULL

Result Grid Form Editor

student 14 x Apply Revert

Output

Action Output

Object Info Session

Type here to search

97%

YES TECH MEDIA

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables Views Stored Procedures Functions

sys

SQL File 14* SQL File 16* SQL File 17*

Limit to 1000 rows

67

68 • USE db1;

69 • SELECT * FROM student

70 WHERE student_name LIKE 'm%';

71

72

YouTube YesTechMedia

Administration Schemas

Information

No object selected

Result Grid Filter Rows: Edit Export/Import: Wrap Cell Content:

student_id	student_name	age	place
s2	Manju	18	Ernakulam
*			

Result Grid Form Editor

student 15

Output

Object Info Session

Action Output

97%

Type here to search

Chrome Edge

YES TECH MEDIA

YouTube YesTechMedia

MySQL Workbench
Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator SQL File 14* SQL File 16* SQL File 17*

SCHEMAS db1 sys

67

68 • USE db1;

69 • SELECT * FROM student

70 WHERE student_name LIKE '%h';

71

72

YouTube YesTechMedia

Administration Schemas Information

No object selected

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:

	student_id	student_name	age	place
▶	s10	Santosh	25	Malappuram
▶	s7	Aneesh	14	Kottayam
*	HULL	HULL	HULL	HULL

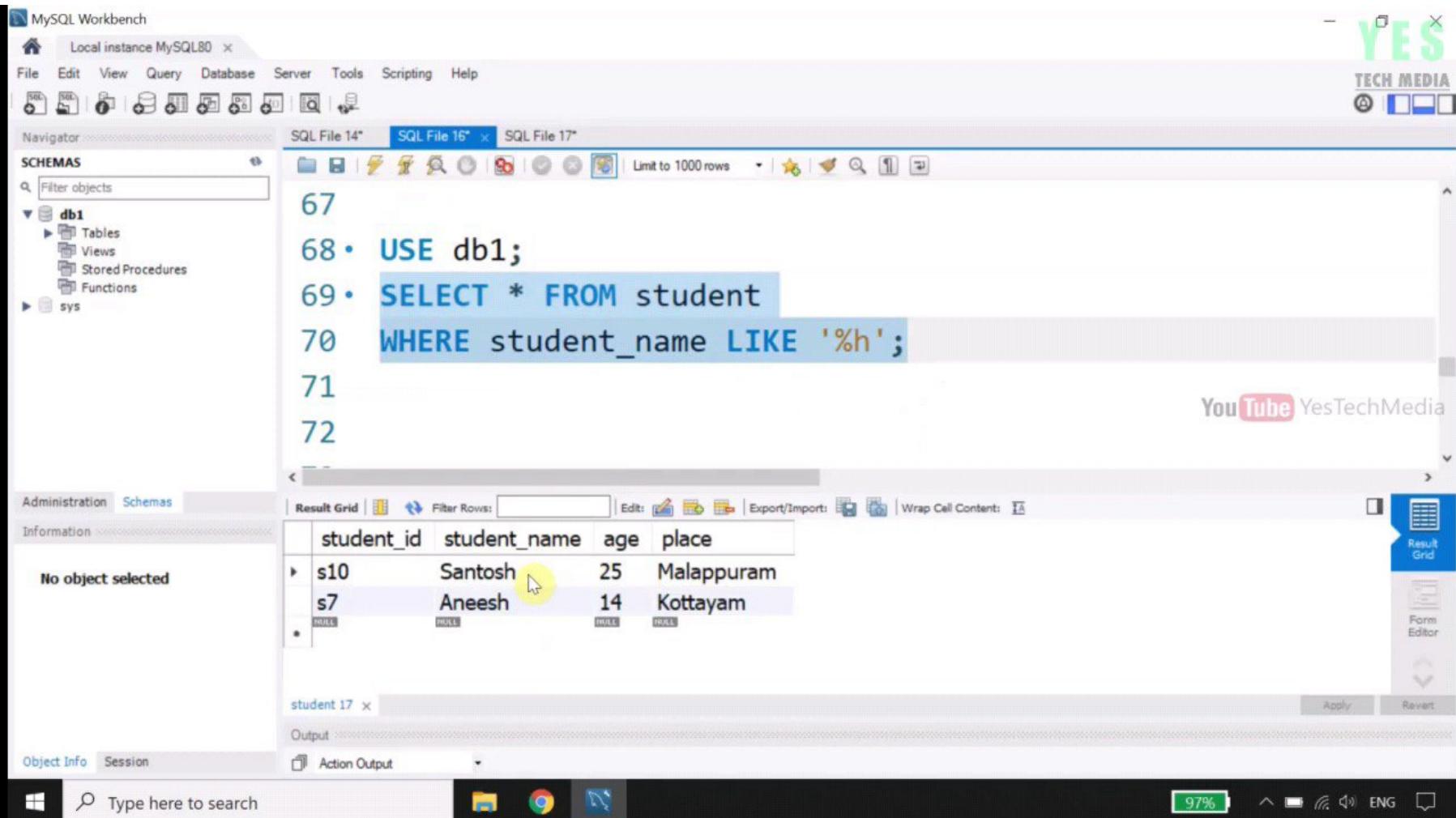
student 17 x Apply Revert

Output Action Output

Object Info Session

Type here to search

97% ENG



MySQL Workbench
Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator SQL File 14* SQL File 16* SQL File 17*

SCHEMAS db1 sys

67

68 • USE db1;

69 • SELECT * FROM student

70 WHERE student_name LIKE '%o%';

71

72

YouTube YesTechMedia

Administration Schemas Information

No object selected

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:

student_id	student_name	age	place
s10	Santosh	25	Malappuram
s5	John	20	Trivandrum
*			

student 18 x Apply Revert

Action Output

Object Info Session

Type here to search

97% ENG

The screenshot shows the MySQL Workbench interface. In the top-left, the title bar says 'MySQL Workbench' and 'Local instance MySQL80'. Below it is a menu bar with 'File', 'Edit', 'View', 'Query', 'Database', 'Server', 'Tools', 'Scripting', and 'Help'. To the right of the menu is a watermark for 'YES TECH MEDIA'. The main area has tabs for 'SQL File 14*', 'SQL File 16*' (which is active), and 'SQL File 17*'. On the left, there's a 'Navigator' pane and a 'SCHEMAS' tree view showing 'db1' (Tables, Views, Stored Procedures, Functions) and 'sys'. The central pane displays a query window with numbered lines 67 through 72. Lines 68, 69, and 70 show a query to select all from 'student' where 'student_name' starts with 'o'. Lines 71 and 72 are blank. Below the query window is a 'Result Grid' showing student data in a table. The table has columns: 'student_id', 'student_name', 'age', and 'place'. It contains three rows: one for 's10' (Santosh, 25, Malappuram), one for 's5' (John, 20, Trivandrum, highlighted with a yellow background), and one for an unnamed row with asterisks. At the bottom, there are tabs for 'Action Output' and 'Output', along with a search bar and system status icons.

MySQL Workbench
Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator SQL File 14* SQL File 16* SQL File 17*

SCHEMAS db1 sys

79

80 • **SELECT * FROM student**

81 **WHERE student_name NOT LIKE 'akhil';**

82

83

84

YouTube YesTechMedia

Administration Schemas Information

No object selected

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:

student_id	student_name	age	place
s10	Santosh	25	Malappuram
s2	Manju	18	Ernakulam
s3	Shareef	13	Palakkad
s4	Praveen	32	Thrissur
s5	John	20	Trivandrum

student 20 x Apply Revert

Output Action Output

Object Info Session

Type here to search

96% ENG

This screenshot shows the MySQL Workbench interface. In the top-left, the title bar indicates 'MySQL Workbench' and 'Local instance MySQL80'. The menu bar includes 'File', 'Edit', 'View', 'Query', 'Database', 'Server', 'Tools', 'Scripting', and 'Help'. Below the menu is a toolbar with various icons. The 'Navigator' pane on the left lists 'SCHEMAS' with 'db1' expanded to show 'Tables', 'Views', 'Stored Procedures', and 'Functions'. The main area contains a series of numbered lines of SQL code. Lines 79, 80, and 81 are highlighted in blue, representing the current query being executed. Line 80 starts with a bullet point and contains the SQL command 'SELECT * FROM student'. Line 81 continues the command with 'WHERE student_name NOT LIKE 'akhil'';'. Lines 82 through 84 are blank. To the right of the code, there is a yellow circular icon with a question mark. Below the code, the 'Result Grid' pane displays a table with five rows of student data. The columns are 'student_id', 'student_name', 'age', and 'place'. The data includes entries for Santosh (25, Malappuram), Manju (18, Ernakulam), Shareef (13, Palakkad), Praveen (32, Thrissur), and John (20, Trivandrum). The bottom of the window shows the Windows taskbar with the Start button, a search bar, and several pinned icons.

MySQL Workbench
Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables Views Stored Procedures Functions

sys

SQL File 14* SQL File 16* SQL File 17*

Limit to 1000 rows

79

80 • **SELECT * FROM student**

81 **WHERE age NOT LIKE 20;**

82

83

84

YouTube YesTechMedia

Administration Schemas

No object selected

Information

Result Grid Filter Rows: Edit Export/Import Wrap Cell Content:

student_id	student_name	age	place
s10	Santosh	25	Malappuram
s2	Manju	18	Ernakulam
s3	Shareef	13	Palakkad
s4	Praveen	32	Thrissur
s7	Anooch	11	Kottayam

student 21

Apply Revert

Output

Action Output

96% ENG

The screenshot shows the MySQL Workbench interface with a query editor containing a SELECT statement. The result grid displays student data with columns: student_id, student_name, age, and place. The 'age' column for the second row ('Manju') is highlighted with a yellow circle and a cursor, indicating it is being edited. The MySQL Workbench toolbar includes icons for file operations, database navigation, and search.

student_id	student_name	age	place
s10	Santosh	25	Malappuram
s2	Manju	18	Ernakulam
s3	Shareef	13	Palakkad
s4	Praveen	32	Thrissur
s7	Anooch	11	Kottayam

MySQL Workbench
Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator SQL File 14* SQL File 16* SQL File 17*

SCHEMAS db1 sys

88
89
90
91 • **SELECT * FROM student**
92 WHERE place = 'Malappuram' OR age = 20;
93

Administration Schemas Information No object selected

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:

student_id	student_name	age	place
s1	Akhil	20	Kannur
s10	Santosh	25	Malappuram
s5	John	20	Trivandrum
s6	Akhil	20	Ernakulam
...	Lakshmi	20	Kozhikode

student 23 x Apply Revert

Output Action Output

95% ENG

YES TECH MEDIA

YouTube YesTechMedia

The screenshot shows the MySQL Workbench interface. In the top-left, the title bar says 'MySQL Workbench' and 'Local instance MySQL80'. The menu bar includes 'File', 'Edit', 'View', 'Query', 'Database', 'Server', 'Tools', 'Scripting', and 'Help'. Below the menu is a toolbar with various icons. The 'Navigator' pane on the left lists 'SCHEMAS' with 'db1' expanded to show 'Tables', 'Views', 'Stored Procedures', and 'Functions', and 'sys' listed. The main area contains three tabs: 'SQL File 14*', 'SQL File 16*' (which is active), and 'SQL File 17*'. The SQL code in the tab reads: '88', '89', '90', '91 • SELECT * FROM student', '92 WHERE place = 'Malappuram' OR age = 20;', and '93'. Below the code is a 'Result Grid' showing the output of the query. The grid has columns: 'student_id', 'student_name', 'age', and 'place'. The data rows are: s1 (Akhil, 20, Kannur), s10 (Santosh, 25, Malappuram), s5 (John, 20, Trivandrum), s6 (Akhil, 20, Ernakulam), and an ellipsis row followed by a row for Lakshmi (20, Kozhikode). The 'Information' pane at the bottom left shows 'No object selected'. The bottom right corner of the window shows system status: battery level at 95%, signal strength, and language set to ENG.

SQL/MySQL Malayalam Tutorial



String Functions

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

- Tables
- Views
- Stored Procedures
- Functions

sys

SQL File 4* SQL File 3* SQL File 4* SQL File 5* SQL File 7* SQL File 8* SQL File 9* SQL File 10* SQL File 11* SQL File 12*

```
2
3 /*Char_Length()*/
4
5 • SELECT * FROM student;
6 • SELECT place, char_length(place) AS Length
7 FROM student;
8
```

YouTube YesTechMedia

Result Grid | Filter Rows: Export: Wrap Cell Contents: Result 8 Result 9

place	Length
Kannur	6
Malappuram	10
Ernakulam	9
Palakkad	8
Thrissur	13

Form Editor

No object selected

Object Info Session

Type here to search

94% ENG

The screenshot shows the MySQL Workbench interface with a query editor containing a script to calculate the length of place names. The result grid displays the place names and their corresponding lengths from the student table. The row for 'Ernakulam' is highlighted with a blue outline, and its length value '9' is also highlighted with a yellow circle.

place	Length
Kannur	6
Malappuram	10
Ernakulam	9
Palakkad	8
Thrissur	13

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator SQL File 4* SQL File 3* SQL File 4* SQL File 5* SQL File 7* SQL File 8* SQL File 9* SQL File 10* SQL File 11* SQL File 12* ↻ ↽

SCHEMAS

Filter objects

db1

Tables Views Stored Procedures Functions

sys

SQL File 4* SQL File 5* SQL File 7* SQL File 8* SQL File 9* SQL File 10* SQL File 11* SQL File 12*

1 • USE db1;

2

3 /*Concat()*/

4

5 • SELECT * FROM student;

6 • SELECT concat(student_name, " ", place) AS New_String

7 FROM student;

Result Grid Filter Rows: Export: Wrap Cell Content: Result Grid Form Editor Read Only

New_String

Akhil Kannur

Santosh Mallooram

Manju Ernakulam

Shareef Palakkad

Praveen Thrissur

Result 1

No object selected

Information

Object Info Session

Action Output

95% ENG

YES TECH MEDIA

YouTube YesTechMedia

Type here to search

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

Views

Stored Procedures

Functions

sys

SQL File 4* SQL File 3* SQL File 4* SQL File 5* SQL File 7* SQL File 8* SQL File 9* SQL File 10* SQL File 11* SQL File 12*

1 /*Format()*/
2
3 • SELECT format(250500.5634, 3) as new_number;

Result Grid | Filter Rows: Export: Wrap Cell Content: Result 1 x Read Only

new_number

250,500.563

Output

Action Output

95% ENG

YES TECH MEDIA

YouTube YesTechMedia

No object selected

Object Info Session

Type here to search

The screenshot shows the MySQL Workbench interface. In the central workspace, there is a query editor tab titled 'SQL File 4*' containing the following SQL code:

```
1 /*Format()*/
2
3 • SELECT format(250500.5634, 3) as new_number;
```

Below the query editor, the results are displayed in a 'Result Grid' tab:

new_number
250,500.563

The results are shown in a single row with one column labeled 'new_number'. The value '250,500.563' is displayed with commas as thousands separators.

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

- Tables
- Views
- Stored Procedures
- Functions

sys

SQL File 4* SQL File 3* SQL File 4* SQL File 5* SQL File 7* SQL File 8* SQL File 9* SQL File 10* SQL File 11* SQL File 12*

1

2 /*Insert()*/

3

4 • SELECT insert("Google", 1,1, "f");

Result Grid | Filter Rows: Export: Wrap Cell Contents: Result Grid

insert("Google", 1,1, "f")

foogle

Result 1 Result 2

Output

Object Info Session Action Output

95% ENG

YES TECH MEDIA

You Tube YesTechMedia

Type here to search

The screenshot shows the MySQL Workbench interface. In the central query editor, there is a syntax error in a stored procedure call. The code is as follows:

```
1
2 /*Insert()*/
3
4 • SELECT insert("Google", 1,1, "f");
```

The line '4 •' is highlighted with a yellow background, indicating a syntax error. The error message '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 '' at line 4' is displayed below the editor.

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator SQL File 4* SQL File 3* SQL File 4* SQL File 5* SQL File 7* SQL File 8* SQL File 9* SQL File 10* SQL File 11* SQL File 12* ↻ ↺

SCHEMAS

Filter objects

db1

- Tables
- Views
- Stored Procedures
- Functions

sys

SQL File 4* SQL File 3* SQL File 4* SQL File 5* SQL File 7* SQL File 8* SQL File 9* SQL File 10* SQL File 11* SQL File 12* ↻ ↺

1

2 /*Insert()*/

3

4 • SELECT insert("Google", 1,3, "fff");

Result Grid Filter Rows: Export: Wrap Cell Content: ↻ ↺

insert("Google", 1,3,
"fff")
ffgle

No object selected

Result 3 x Read Only

Object Info Session Action Output ↻ ↺

Type here to search

96% 🔋 ⚡ ENG

YES TECH MEDIA

YouTube YesTechMedia

Result Grid Form Editor

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

- Tables
- Views
- Stored Procedures
- Functions

sys

SQL File 4* SQL File 3* SQL File 4* SQL File 5* SQL File 7* SQL File 8* SQL File 9* SQL File 10* SQL File 11* SQL File 10* SQL File 11* SQL File 12*

1 /*upper()*/
2
3 • **SELECT** upper("hello world") **AS** new_string;

Result Grid | Filter Rows: [] Export: [] Wrap Cell Contents: []

new_string
HELLO WORLD

Result 1 × Read Only

Output

Action Output

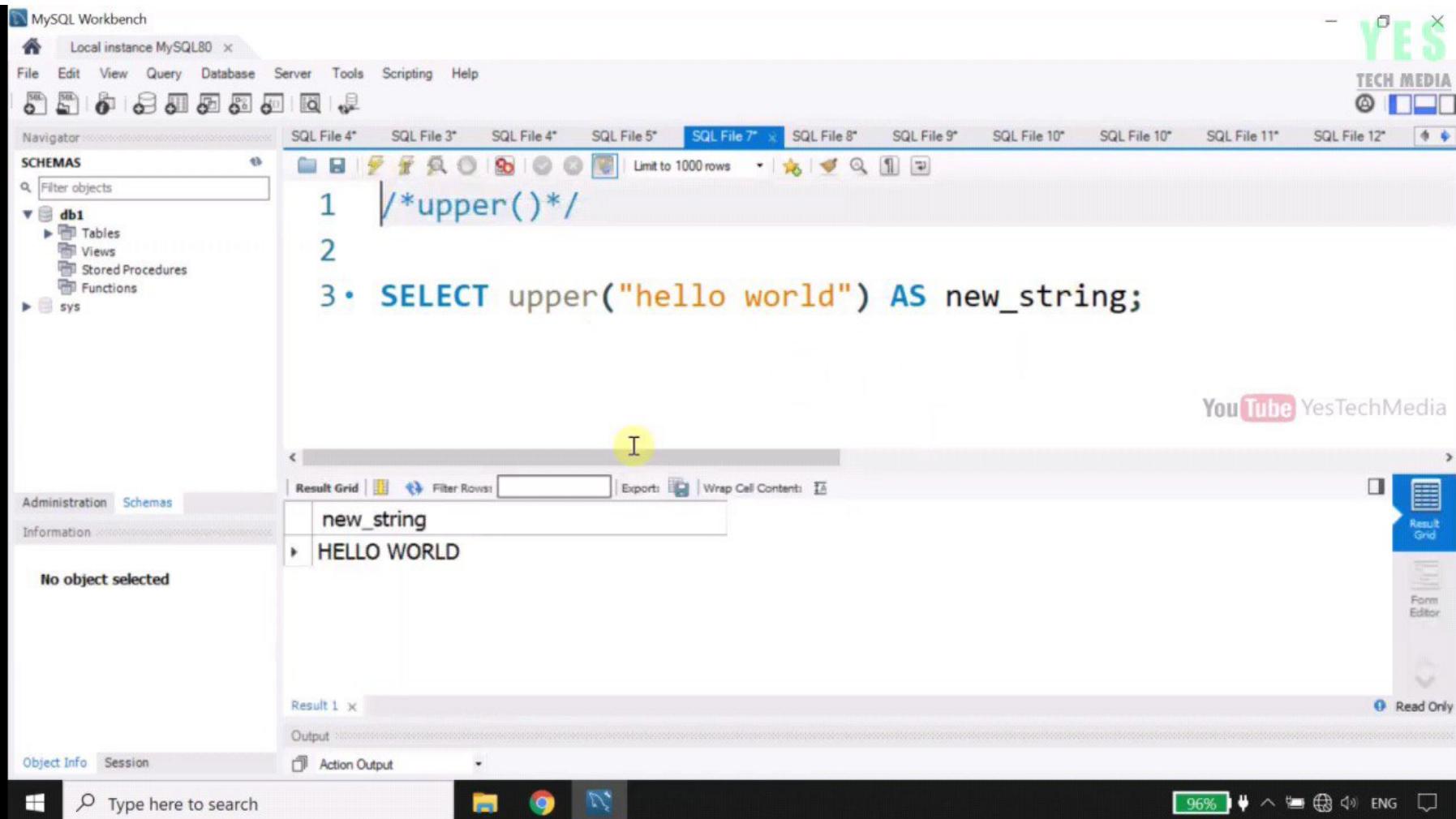
Object Info Session

Type here to search

96% ENG

YES TECH MEDIA

YouTube YesTechMedia



MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

- Tables
- Views
- Stored Procedures
- Functions

sys

SQL File 4* SQL File 3* SQL File 4* SQL File 5* SQL File 7* SQL File 8* SQL File 9* SQL File 10* SQL File 11* SQL File 12*

```
1 /*lower()*/
2
3 • SELECT lower("HELLO WORLD") AS new_string;
```

Result Grid | Filter Rows: Export: Wrap Cell Content: Result 1 x

new_string
hello world

No object selected

Object Info Session

Action Output

Output

96% ENG

YES TECH MEDIA

YouTube YesTechMedia

Result Grid

Form Editor

Read Only

Type here to search

File Explorer Chrome Task View

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

- Tables
- Views
- Stored Procedures
- Functions

sys

SQL File 4* SQL File 3* SQL File 4* SQL File 5* SQL File 7* SQL File 8* SQL File 9* SQL File 10* SQL File 11* SQL File 12*

1 /*reverse()*/
2
3 • SELECT reverse("HELLO") AS new_string;

Result Grid | Filter Rows: Export: Wrap Cell Contents: Result Grid

new_string

OLLEH

Result 1 x Read Only

Output

Action Output

Object Info Session

Type here to search

96% ENG

YES TECH MEDIA

YouTube YesTechMedia

The screenshot shows the MySQL Workbench interface. In the central query editor, a query is being run to reverse the string "HELLO". The result grid displays the reversed string "OLLEH". The MySQL logo is visible in the top right corner of the application window.

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

- Tables
- Views
- Stored Procedures
- Functions

sys

SQL File 4* SQL File 3* SQL File 4* SQL File 5* SQL File 7* SQL File 8* SQL File 9* SQL File 10* SQL File 11* SQL File 12*

1 /*repeat()*/
2
3 • **SELECT repeat("HELLO ", 5) AS new_string;**

Result Grid Filter Rows: Export: Wrap Cell Content:

new_string
HELLO HELLO HELLO HELLO HELLO

Result 1 x Read Only

Output

Action Output

Object Info Session

Type here to search

96% ENG

YES TECH MEDIA

YouTube YesTechMedia

Result Grid Form Editor

MySQL Workbench Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

- Tables
- Views
- Stored Procedures
- Functions

sys

SQL File 4* SQL File 3* SQL File 4* SQL File 5* SQL File 7* SQL File 8* SQL File 9* SQL File 10* SQL File 10* SQL File 11* SQL File 12*

1 /*left()*/
2
3 • SELECT left("Hello", 4) AS new_string;

YouTube YesTechMedia

Administration Schemas

No object selected

Result Grid | Filter Rows: Export: Wrap Cell Content: Result Grid

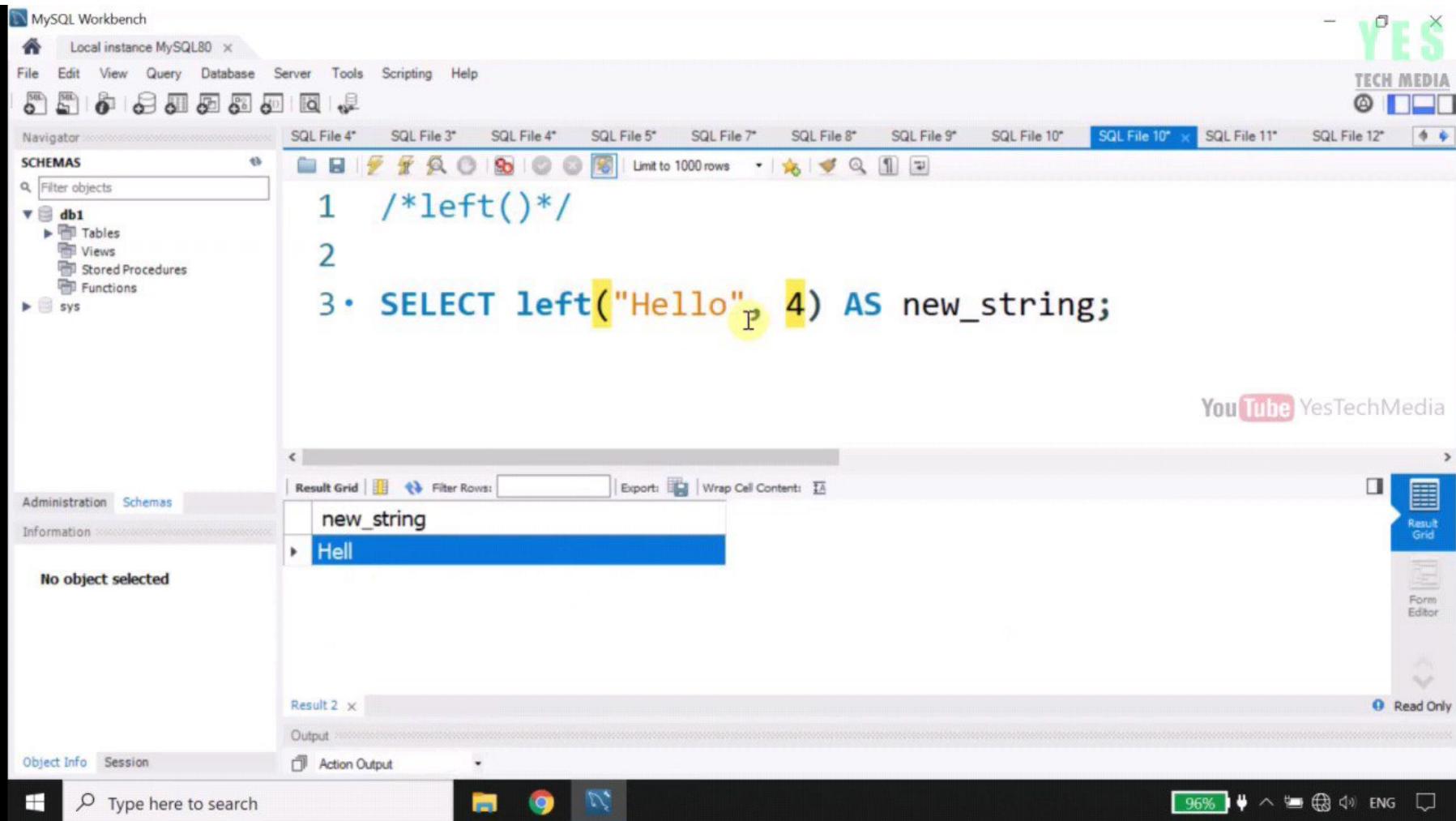
new_string
Hell

Result 2 x Read Only

Action Output

Type here to search

96% ENG



MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator SQL File 4* SQL File 3* SQL File 4* SQL File 5* SQL File 7* SQL File 8* SQL File 9* SQL File 10* SQL File 11* SQL File 12* ↑ ↓

SCHEMAS

Filter objects

db1

- Tables
- Views
- Stored Procedures
- Functions

sys

1 /*right()*/
2
3. SELECT right("Hello", 2) AS new_string;

YouTube YesTechMedia

Result Grid | Filter Rows: Export: Wrap Cell Content: Result Grid

new_string
lo

No object selected

Object Info Session

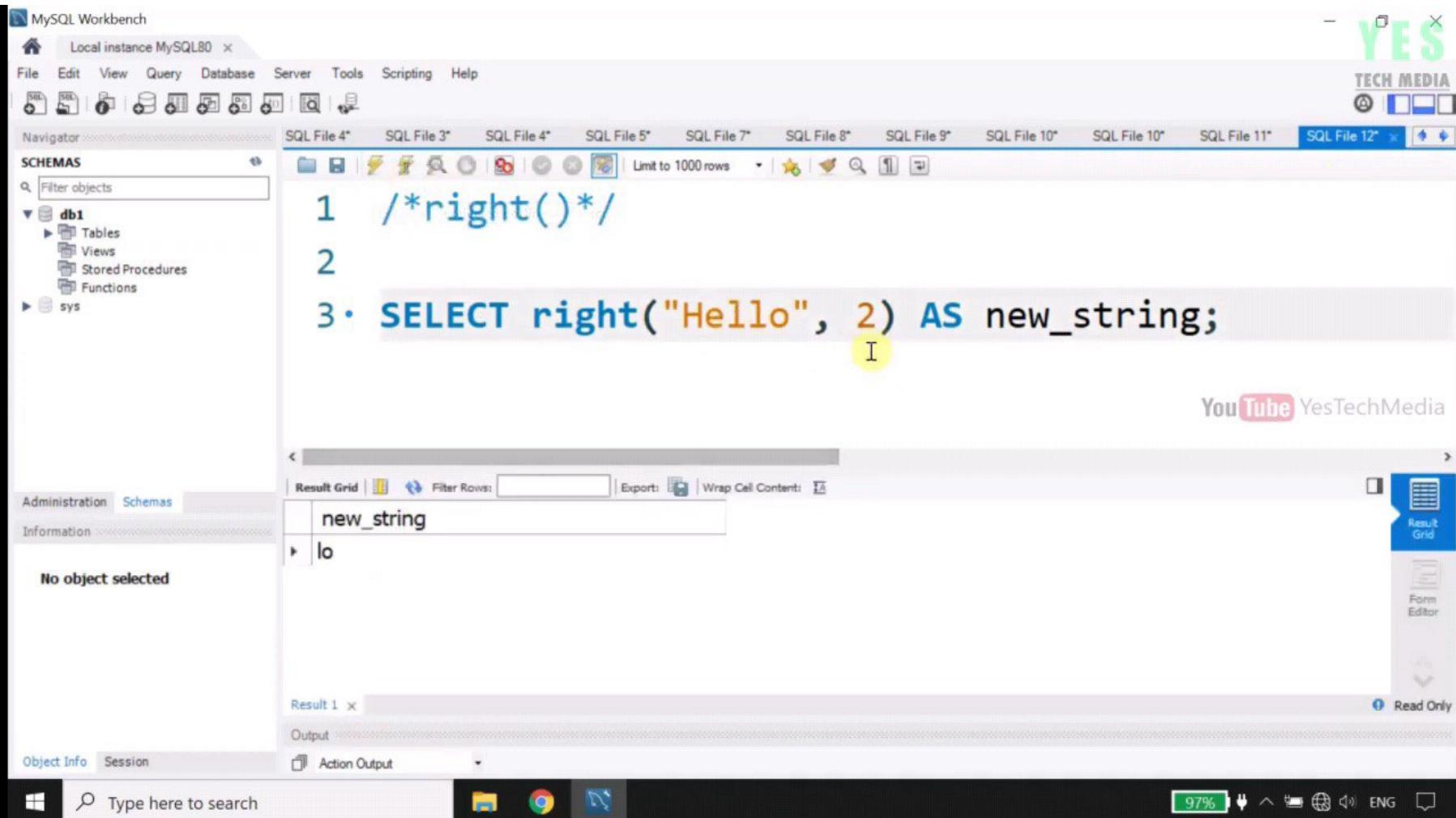
Action Output

Result 1 × Read Only

Output

Type here to search

97% ENG



MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator SQL File 4* SQL File 3* SQL File 4* SQL File 5* SQL File 7* SQL File 8* SQL File 9* SQL File 10* SQL File 11* SQL File 12*

SCHEMAS db1 sys

1 /*length()*/
2
3 • SELECT length("Hello") AS new_string;

Result Grid Filter Rows: Export: Wrap Cell Content: Result Grid Form Editor

No object selected

Result 1 x Read Only

Output

Object Info Session Action Output

97% Type here to search ENG

YES TECH MEDIA

YouTube YesTechMedia

new_string
5

SQL/MySQL Malayalam Tutorial



Math Functions

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator SQL File 13* SQL File 14* SQL File 15* SQL File 16* SQL File 17*

SCHEMAS Filter objects

db1 Tables Views Stored Procedures Functions

sys

1 /*Mathematical Function*/

2

3 • SELECT abs(-123) as new_number;

4

5 USE db1.

YouTube YesTechMedia

Result Grid Filter Rows: Export: Wrap Cell Contents:

new_number
123

No object selected

Object Info Session

Action Output

Result 1 Result 2 × Read Only

Output

Type here to search

98% ENG

YES TECH MEDIA

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator SQL File 13* SQL File 14* SQL File 15* SQL File 16* SQL File 17*

SCHEMAS db1 sys

Filter objects

5

6 · USE db1;

7 · SELECT avg(age) as avg_age FROM student1;

8

9

Result Grid Filter Rows: Export: Wrap Cell Content:

avg_age
19.4000

No object selected

Result 4 x Read Only

Output

Object Info Session Action Output

Type here to search

98% ENG

YES TECH MEDIA

YouTube YesTechMedia

Result Grid Form Editor

The screenshot shows the MySQL Workbench interface. In the central pane, a query window displays the following SQL code:

```
USE db1;
SELECT avg(age) as avg_age FROM student1;
```

The result grid shows a single row with the value 19.4000 in the avg_age column. The status bar at the bottom right indicates a battery level of 98% and the language setting as ENG.

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator SQL File 13* SQL File 14* SQL File 15* SQL File 16* SQL File 17*

SCHEMAS Filter objects

db1 Tables Views Stored Procedures Functions

sys

8

9

10. SELECT ceiling(25.3) as new_number;

11

12

Result Grid Filter Rows Export Wrap Cell Contents

new_number
26

No object selected

Result 5 × Read Only

Output

Action Output

98% ENG

YES TECH MEDIA

YouTube YesTechMedia

The screenshot shows the MySQL Workbench interface. In the central pane, a query is being run:

```
SELECT ceiling(25.3) as new_number;
```

The result grid displays a single row with the column header "new_number" and the value "26". The status bar at the bottom right indicates "Read Only". A watermark for "YES TECH MEDIA" and a YouTube channel link "YesTechMedia" are visible in the background.

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator SQL File 13* SQL File 14* SQL File 15* SQL File 16* SQL File 17*

SCHEMAS Filter objects db1 Tables Views Stored Procedures Functions sys

13

14. **SELECT floor(25.8) as new_number;**

15 I

16

17

YouTube YesTechMedia

Administration Schemas Information No object selected

Result Grid Filter Rows Export Wrap Cell Content

new_number
25

Result 7 × Read Only

Output

Object Info Session Action Output

Type here to search

99% ENG

This screenshot shows the MySQL Workbench interface. In the central query editor, a query is being run: "SELECT floor(25.8) as new_number;". The result of the query, "25", is displayed in a grid. The interface includes various toolbars, a sidebar for schemas, and a status bar at the bottom.

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator SQL File 13* SQL File 14* SQL File 15* SQL File 16* SQL File 17*

SCHEMAS Filter objects

db1 Tables Views Stored Procedures Functions

sys

15

16 • **SELECT round(25.5) as new_number;**

17

18

19

Result Grid Filter Rows Export Wrap Cell Contents

new_number
26

Result 9 × Read Only

Output

Object Info Session Action Output

Type here to search

99% ENG

YES TECH MEDIA

YouTube YesTechMedia

Result Grid Form Editor

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator SQL File 13* SQL File 14* SQL File 15* SQL File 16* SQL File 17*

SCHEMAS db1 sys

15

16 • **SELECT round(25.435765, 3) as new_number;**

17

18

19

YouTube YesTechMedia

Administration Schemas

No object selected

Information

Result Grid | Filter Rows: Export: Wrap Cell Content: Result 15 x Read Only

new_number

25.436

Object Info Session

Action Output

Type here to search

99% ENG

YES TECH MEDIA

The screenshot shows the MySQL Workbench interface. In the central workspace, a query window displays the following SQL code:

```
15
16 • SELECT round(25.435765, 3) as new_number;
17
18
19
```

The result grid below shows the output of the query:

new_number
25.436

The value "25.436" is highlighted with a yellow circle. The status bar at the bottom right indicates "Read Only".

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator SQL File 13* SQL File 14* SQL File 15* SQL File 16* SQL File 17*

SCHEMAS Filter objects

db1 Tables Views Stored Procedures Functions

sys

17

18

19 • **SELECT count(student_id) as total_student**

20 FROM student;

21

22

Result Grid Filter Rows: Export: Wrap Cell Content:

total_student
10

No object selected

Result 16 × Read Only

Output

Object Info Session Action Output

99% Type here to search ENG

YES TECH MEDIA

YouTube YesTechMedia

Result Grid Form Editor

MySQL Workbench

Local instance MySQL80 X

File Edit View Query Database Server Tools Scripting Help

Navigator SQL File 13* SQL File 14* SQL File 15* SQL File 16* SQL File 17*

SCHEMAS Filter objects db1 Tables Views Stored Procedures Functions sys

22
23
24 • **SELECT max(age) as max_age FROM student;**
25
26
27

Result Grid Filter Rows: Export: Wrap Cell Content: max_age 32

No object selected

Result 17 x Read Only

Object Info Session Action Output

Type here to search 99% ENG

YES TECH MEDIA

YouTube YesTechMedia

The screenshot shows the MySQL Workbench interface. In the central pane, a query result grid displays a single row with one column named 'max_age' containing the value '32'. Above the grid, the query 'SELECT max(age) as max_age FROM student;' is visible, with the entire line highlighted in blue. The MySQL Workbench toolbar at the top includes icons for file operations, database management, and scripting. The left sidebar shows the schema navigation tree, currently expanded to show tables, views, stored procedures, and functions under the 'db1' schema. The bottom status bar indicates a battery level of 99%, language settings as ENG, and network connectivity.

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

- Tables
- Views
- Stored Procedures
- Functions

sys

SQL File 13* SQL File 4* SQL File 15* SQL File 16* SQL File 17*

1 • USE db1;
2 • SELECT * FROM student;

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: | Result Grid | Form Editor

min_age
12

student 1 ×

Output

No object selected

Object Info Session Action Output

Type here to search

99% ENG

YES TECH MEDIA

YouTube YesTechMedia

This screenshot shows the MySQL Workbench interface. The top navigation bar includes 'File', 'Edit', 'View', 'Query', 'Database', 'Server', 'Tools', 'Scripting', and 'Help'. Below the menu is a toolbar with various icons. The main workspace has tabs for 'SQL File 13*', 'SQL File 4*' (which is active), 'SQL File 15*', 'SQL File 16*', and 'SQL File 17*'. The 'SQL File 4*' tab contains the following SQL code:

```
1 • USE db1;
2 • SELECT * FROM student;
```

The 'Information' panel on the left shows the 'Schemas' section with 'db1' expanded, listing 'Tables', 'Views', 'Stored Procedures', and 'Functions'. The 'Administration' tab is selected. The 'Result Grid' panel displays the result of the second query, showing a single row with 'min_age' and its value '12'. The bottom status bar shows battery level at 99%, language set to 'ENG', and connectivity icons.

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator SQL File 13* SQL File 14* SQL File 15* SQL File 16* SQL File 17*

SCHEMAS db1 sys

30
31
32 • **SELECT pi() AS pi_value;**

33
34
35

Result Grid | Filter Rows: Export: Wrap Cell Content: Result Grid

No object selected

pi_value

3.141593

Result 19 x Read Only

Object Info Session Action Output

Type here to search

99% ENG

YES TECH MEDIA

YouTube YesTechMedia

The screenshot shows the MySQL Workbench interface. In the SQL editor, the following query is being run:

```
SELECT pi() AS pi_value;
```

The result grid displays the output:

pi_value
3.141593

A yellow circle highlights the cursor position at the end of the query line.

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator SQL File 13* SQL File 14* SQL File 15* SQL File 16* SQL File 17*

SCHEMAS Filter objects db1 Tables Views Stored Procedures Functions sys

34
35
36 • **SELECT rand() AS random_number;**
37
38
39

YouTube YesTechMedia

Result Grid Filter Rows! Export: Wrap Cell Content: random_number 0.09030326743638448

No object selected

Object Info Session Action Output Read Only

Type here to search

99% ENG

The screenshot shows the MySQL Workbench interface. In the central pane, a query editor window displays the following SQL code:

```
34
35
36 • SELECT rand() AS random_number;
37
38
39
```

The result grid below shows one row with the column name "random_number" and the value "0.09030326743638448". The "Result Grid" tab is selected in the toolbar.

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator SQL File 13* SQL File 14* SQL File 15* SQL File 16* SQL File 17*

SCHEMAS db1 sys

Execute the selected portion of the script or everything, if there is no selection

34

35

36 • **SELECT floor(rand()*101) AS random_number;**

37

38

39

YouTube YesTechMedia

Administration Schemas

Information No object selected

Result Grid Filter Rows: Export: Wrap Cell Contents:

random_number
47

Result 37 x Read Only

Output

Object Info Session Action Output

Type here to search

99% ENG

The screenshot shows the MySQL Workbench interface. In the central query editor, a script is being run, with line 36 highlighted in blue. The result grid shows one row with the value 47. The MySQL icon in the system tray indicates a connection to Local instance MySQL80.

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator SQL File 13* SQL File 14* SQL File 15* SQL File 16* SQL File 17*

SCHEMAS Filter objects db1 Tables Views Stored Procedures Functions sys

38

39

40 • **SELECT sqrt(9) AS new_number;**

41

42

43

YouTube YesTechMedia

Administration Schemas Information No object selected

Result Grid Filter Rows: Export: Wrap Cell Content: Result 45 x Read Only

new_number

3

Object Info Session Action Output

Type here to search

99% ENG

YES TECH MEDIA

The screenshot shows the MySQL Workbench interface. In the central pane, a query is being typed into the SQL editor:

```
40 • SELECT sqrt(9) AS new_number;
```

The result of the query is displayed in the Result Grid:

new_number
3

At the bottom of the screen, the Windows taskbar is visible with icons for File Explorer, Google Chrome, and Task View.

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator SQL File 13* SQL File 14* SQL File 15* SQL File 16* SQL File 17*

SCHEMAS db1 sys

43
44
45
46 • **SELECT sum(age) AS new_number FROM student;**
47
48

YouTube YesTechMedia

Administration Schemas Information

No object selected

Result Grid Filter Rows Export Wrap Cell Content

new_number
194

Result 47 x Read Only

Output

Object Info Session Action Output

Type here to search

99% ENG

The screenshot shows the MySQL Workbench interface. In the central pane, a query is being run:

```
SELECT sum(age) AS new_number FROM student;
```

The result of the query is displayed in a grid:

new_number
194

A yellow circle highlights the value '194' in the result grid. The MySQL Workbench toolbar at the top includes icons for various database operations like Create, Alter, Drop, and Execute.

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator SQL File 13* SQL File 14* SQL File 15* SQL File 16* SQL File 17*

SCHEMAS db1 sys

43
44
45
46 • **SELECT sum(age) AS new_number FROM student;**
47
48

YouTube YesTechMedia

Administration Schemas Information

No object selected

Result Grid Filter Rows: Export: Wrap Cell Content:

new_number
194

Result 47 x Read Only

Output

Object Info Session Action Output

Type here to search

99% ENG

The screenshot shows the MySQL Workbench interface. In the central pane, a query is being run: "SELECT sum(age) AS new_number FROM student;". The result is displayed in a grid with a single row labeled "new_number" containing the value "194". The "Result Grid" tab is selected. The MySQL Workbench toolbar at the top includes icons for file operations, database navigation, and scripting. The left sidebar shows the current schema is "db1" and contains tables, views, stored procedures, and functions. The bottom status bar shows battery level at 99%, language set to English (ENG), and signal strength.

SQL/MySQL Malayalam Tutorial



Date Functions

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

- Tables
- Views
- Stored Procedures
- Functions

sys

SQL File 14* SQL File 15* SQL File 16* SQL File 17*

1 /*Date Function*/
2
3 • **SELECT current_timestamp() AS time_stamp;**
4
5
6

Result Grid | Filter Rows: Export: Wrap Cell Content: Result Grid

time_stamp

2021-05-15 12:26:43

Result 3 x Read Only

Output

Action Output

Object Info Session

Type here to search

100% ENG

YES TECH MEDIA

YouTube YesTechMedia

The screenshot shows the MySQL Workbench interface. In the central workspace, a query editor window displays a script starting with a date function comment and a SELECT statement. The SELECT statement is highlighted in blue. Below the editor is a result grid showing a single row with a timestamp value. The timestamp value is also displayed in a smaller window below the grid. The bottom of the screen shows a taskbar with various icons and system status indicators like battery level and network connection.

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator SQL File 14* SQL File 15* SQL File 16* SQL File 17*

SCHEMAS Filter objects

db1 Tables Views Stored Procedures Functions

sys

4
5
6
7 • SELECT day("2020/7/24") AS new_day;
8
9

Result Grid Filter Rows Export Wrap Cell Contents

new_day
24

No object selected

Result 4 × Read Only

Output

Object Info Session Action Output

Type here to search

100% ENG

YES TECH MEDIA

YouTube YesTechMedia

The screenshot shows the MySQL Workbench interface. In the central pane, a SQL editor window displays the following code:

```
7 • SELECT day("2020/7/24") AS new_day;
```

The result of the query is shown in a Result Grid:

new_day
24

The status bar at the bottom right indicates "Read Only". A watermark for "YES TECH MEDIA" is visible in the top right corner.

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

- Tables
- Views
- Stored Procedures
- Functions

sys

SQL File 14* SQL File 15* SQL File 16* SQL File 17*

19

20 • **SELECT dayname("2020/7/24") AS new_dayname;**

21

22

23

24

Result Grid | Filter Rows: Export: Wrap Cell Content: Result Grid

new_dayname

Friday

No object selected

Object Info Session Action Output

Result 7 x Read Only

Output

Type here to search

100% ENG

YES TECH MEDIA

YouTube YesTechMedia

The screenshot shows the MySQL Workbench interface. In the central query editor, a query is being run: 'SELECT dayname("2020/7/24") AS new_dayname;'. The result grid displays a single row with a column labeled 'new_dayname' containing the value 'Friday'. The interface includes various toolbars, a sidebar for schemas, and a status bar at the bottom.

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator SQL File 14* SQL File 15* SQL File 16* SQL File 17*

SCHEMAS Filter objects

db1 Tables Views Stored Procedures Functions

sys

22

23

24

25 • **SELECT sysdate();**

26

27

Result Grid Filter Rows: Export: Wrap Cell Content:

sysdate()
2021-05-15 12:28:57

No object selected

Result 11 × Read Only

Output

Object Info Session Action Output

Type here to search

100% ENG

YES TECH MEDIA

YouTube YesTechMedia

Result Grid Form Editor

The screenshot shows the MySQL Workbench interface. In the central pane, a query window displays the following code and its result:

```
SELECT sysdate();
```

The result grid shows one row with the timestamp:

sysdate()
2021-05-15 12:28:57

A yellow circle highlights the timestamp value in the result grid. The status bar at the bottom right indicates "Read Only". A watermark for "YES TECH MEDIA" is visible in the top right corner.

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

- Tables
- Views
- Stored Procedures
- Functions

sys

SQL File 14* SQL File 15* SQL File 16* SQL File 17*

28

29 • **SELECT curdate();**

30

31

32

Result Grid | Filter Rows: Export: Wrap Cell Content:

curdate()
2021-05-15

Result Grid

No object selected

Information

Object Info Session

Action Output

Result 12 x Read Only

Output

Type here to search

100% ENG

YES TECH MEDIA

YouTube YesTechMedia

The screenshot shows the MySQL Workbench interface with a query editor containing the following code:

```
28
29 • SELECT curdate();
30
31
32
```

The result grid displays the output of the query:

curdate()
2021-05-15

A yellow box highlights the date '2021-05-15' in the result grid.

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator SQL File 14* SQL File 15* SQL File 16* SQL File 17*

SCHEMAS db1 Tables Views Stored Procedures Functions sys

Filter objects

31

32

33 • **SELECT curtime();**

34

35

36

YouTube YesTechMedia

Administration Schemas Information

No object selected

Result Grid Filter Rows Export Wrap Cell Content

curtime()
12:29:29

Result 13 x Read Only

Output

Object Info Session Action Output

Type here to search

100% ENG

The screenshot shows the MySQL Workbench interface. In the central pane, a query editor window displays the following SQL code:

```
31
32
33 • SELECT curtime();
34
35
36
```

The result grid below shows the output of the last query:

curtime()
12:29:29

A yellow circle highlights the value "12:29:29".

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

Views

Stored Procedures

Functions

sys

SQL File 14* SQL File 15* SQL File 16* SQL File 17*

33 • **SELECT curtime();**

34

35

36

37 • **SELECT now();**

38

YouTube YesTechMedia

Result Grid | Filter Rows: Export: Wrap Cell Content: Result Grid

now()
2021-05-15 12:29:52

No object selected

Object Info Session

Action Output

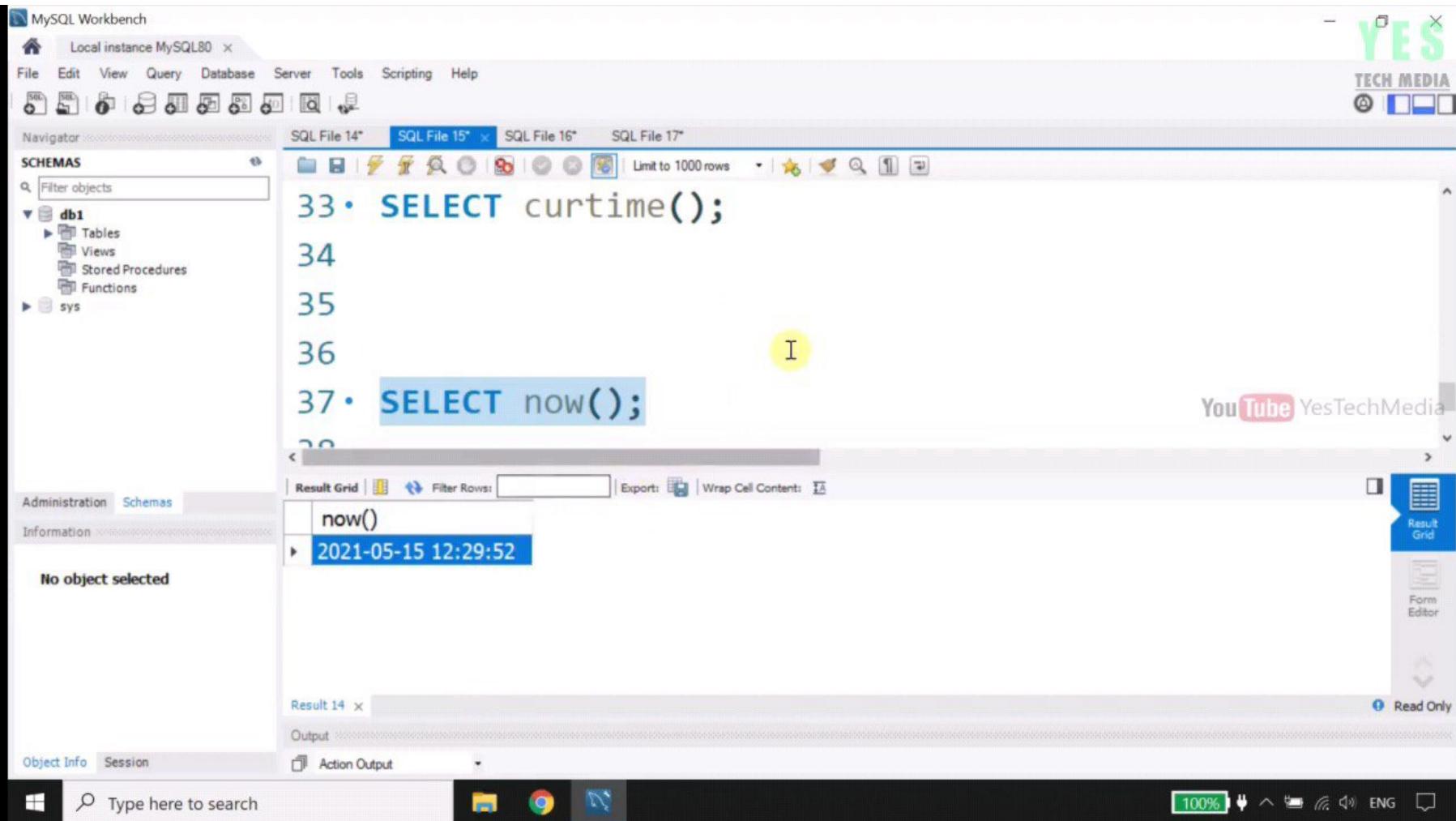
Output

Result 14 x Read Only

Type here to search

100% ENG

YES TECH MEDIA



SQL/MySQL Malayalam Tutorial



Table with Foreign Key

SQL Tutorial

Relational Database

- A FOREIGN KEY is a field (or collection of fields) in one table, that refers to the PRIMARY KEY in another table.

Student			
Student ID	Student Name	Age	Place
s1	Akhil	20	Trivandrum
s2	Manju	18	Ernakulam
s3	Shareef	13	Palakkad
s4	Praveen	32	Thrissur
s5	John	20	Trivandrum
s6	Akhil	18	Ernakulam
s7	Aneesh	14	Kottayam
s8	Lakshmi	20	Kozhikode
s9	Cyril	12	Ernakulam
s10	Santosh	28	Malappuram

Courses	
Course ID	Course Name
c1	Computer Hardware
c2	Networking
c3	Web Designing
c4	Graphic Designing
c5	Ms Office
c6	C++
c7	Java

Enrolment		
Enrolment ID	Student ID	Course ID
e1	s1	c1
e2	s7	c4
e3	s6	c2
e4	s5	c1
e5	s4	c5
e6	s1	c4
e7	s2	c6
e8	s3	c7
e9	s2	c4
e10	s4	c3

FOREIGN KEY

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables: courses, student, student1

Views

Stored Procedures

Functions

db2

Tables

Views

Stored Procedures

Functions

sys

Administration Schemas

Information

Table: courses

Columns:

course_id	varchar(5) PK
course_name	varchar(50)

Object Info Session Output

1 • USE db1;

2

3

4 • CREATE TABLE enrolment(

5 enrolment_id VARCHAR(100) NOT NULL,

6 student_id VARCHAR(10),

7 course_id VARCHAR(10),

8 PRIMARY KEY (enrolment_id),

9 FOREIGN KEY (student_id) REFERENCES student(student_id),

10 FOREIGN KEY (course_id) REFERENCES courses(course_id)

11);

12

13

14 • INSERT INTO enrolment

15 VALUES

16 ('e1', 's1', 'c1').

YES
TECH MEDIA

YouTube YesTechMedia

Type here to search

Output

66% ENG 4

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

courses

student

student1

Views

Stored Procedures

Functions

db2

Tables

Views

Stored Procedures

Functions

sys

Administration Schemas

Information

Table: courses

Columns:

- course_id varchar(5) PK
- course_name varchar(50)

SQL File 14* SQL File 5* SQL File 6*

Limit to 500 rows

13

14 • INSERT INTO enrolment

15 VALUES

16 ('e1', 's1', 'c1'),

17 ('e2', 's7', 'c4'),

18 ('e3', 's6', 'c2'),

19 ('e4', 's5', 'c1'),

20 ('e5', 's4', 'c5'),

21 ('e6', 's1', 'c4'),

22 ('e7', 's2', 'c6'),

23 ('e8', 's3', 'c7'),

24 ('e9', 's2', 'c4'),

25 ('e10', 's4', 'c3');

26

27

28

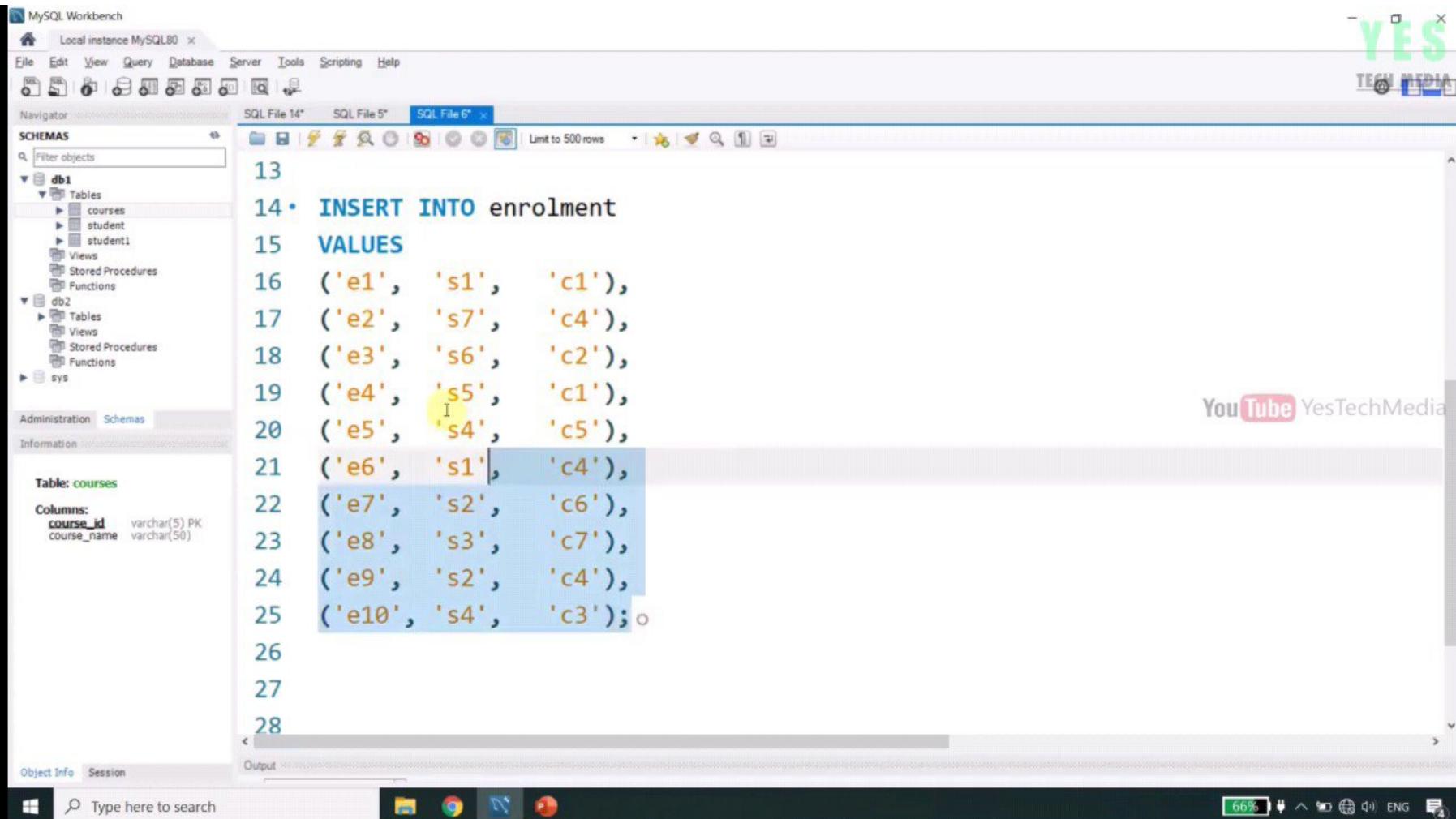
Object Info Session Output

Type here to search

66% ENG 4

YES
TECH MEDIA

YouTube YesTechMedia



MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

- courses
- student
- student1

Views

Stored Procedures

Functions

db2

Tables

Views

Stored Procedures

Functions

SYS

Administration Schemas

Information

Table: courses

Columns:

- course_id varchar(5) PK
- course_name varchar(50)

SQL File 14* SQL File 5* SQL File 6*

Limit to 500 rows

24 ('e9', 's2', 'c4'),
25 ('e10', 's4', 'c3');
26
27 • SELECT * FROM enrolment;
28

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:

enrolment_id	student_id	course_id
e1	s1	c1
e10	s4	c3
e2	s7	c4
e3	s6	c2
e4	s5	c1
e5	s4	c5
e6	s1	c4
e7	s2	c6
e8	s3	c7
e9	s2	c4
NULL	NULL	NULL

enrolment 1

Object Info Session Output

Type here to search

67% ENG 4

YES
TECH MEDIA

YouTube YesTechM

Result Grid Form Editor Field Types Query Stats Execution Plan

SQL/MySQL Malayalam Tutorial



SQL Joins

SQL Tutorial

YES
TECH MEDIA

SQL JOINS

- SQL JOIN statement is used for combine rows/datas from two or more tables, based on a common field between them.
- INNER JOIN: Returns records that have matching values in both tables.
- LEFT [OUTER] JOIN: Returns all records from the left table and matched records from the right table.
- RIGHT [OUTER] JOIN: Returns all records from the right table and matched records from the left table.
- FULL [OUTER] JOIN: Returns all the records from all tables.



MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

- Tables
- Views
- Stored Procedures
- Functions

db2

- Tables
 - capital
 - country
- Views
- Stored Procedures
- Functions

sys

Administration Schemas

Information

No object selected

SQL File 14* SQL File 17* SQL File 4* × SQL File 5* SQL File 6*

Limit to 1000 rows

1 • USE db2;

2 • CREATE TABLE country(

3 country_code VARCHAR(10) NOT NULL,

4 country_name VARCHAR(100),

5 PRIMARY KEY(country_code)

6);

7

8 • INSERT INTO country

9 VALUES

10 ('IN', 'India'),

11 ('SL', 'Sri Lanka'),

12 ('PK', 'Pakistan'),

13 ('BN', 'Bangladesh'),

14 ('NP', 'Nepal');

15

Output

Action Output

YouTube YesTechMedia

57% 🔍 ⌂ ENG 🇮🇳

Type here to search

കുടുതൽ വിവരങ്ങൾക്ക് ഈ ച

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator: Local instance MySQL80

SCHEMAS: db1, db2, sys

SQL File 14*, SQL File 17*, SQL File 4* (selected), SQL File 5*, SQL File 6*

Filter objects

7

8 • INSERT INTO country

9 VALUES

10 ('IN', 'India'),

11 ('SL', 'Sri Lanka'),

12 ('PK', 'Pakistan'),

13 ('BN', 'Bangladesh'),

14 ('NP', 'Nepal');

15

16 • SELECT * FROM country;

17

18

19 • CREATE TABLE capital(

20 capital_id VARCHAR(10) NOT NULL,

21 country_code VARCHAR(10),

Output

Action Output

Object Info Session

Type here to search

57% ENG

YES TECH MEDIA

YouTube YesTechMedia

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

Views

Stored Procedures

Functions

db2

Tables

capital

country

Views

Stored Procedures

Functions

sys

SQL File 14* SQL File 17* SQL File 4* × SQL File 5* SQL File 6*

Limit to 1000 rows

10 ('IN', 'India'),
11 ('SL', 'Sri Lanka'),
12 ('PK', 'Pakistan'),
13 ('BN', 'Bangladesh'),
14 ('NP', 'Nepal');
15
16 • SELECT * FROM country;

YouTube YesTechMedia

No object selected

Information

Result Grid | Filter Rows: [] | Edit: [] [] [] Export/Import: [] [] Wrap Cell Content: []

country_code	country_name
BN	Bangladesh
IN	India
NP	Nepal
PK	Pakistan
SL	Sri Lanka

country 20 ×

Output

Action Output

Object Info Session

Type here to search

57% 🔍 ⌂ ENG 📢

The screenshot shows the MySQL Workbench interface. In the top-left, the Navigator pane displays database schemas: db1 (Tables, Views, Stored Procedures, Functions) and db2 (Tables, capital, country, Views, Stored Procedures, Functions). The main area contains a query editor with the following code:

```
10 ('IN', 'India'),
11 ('SL', 'Sri Lanka'),
12 ('PK', 'Pakistan'),
13 ('BN', 'Bangladesh'),
14 ('NP', 'Nepal');
15
16 • SELECT * FROM country;
```

The results grid below shows the data from the query:

country_code	country_name
BN	Bangladesh
IN	India
NP	Nepal
PK	Pakistan
SL	Sri Lanka

The 'India' row in the results grid is highlighted with a yellow circle. The bottom status bar shows system information like battery level (57%), network connection, and language (ENG).

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

- Tables
- Views
- Stored Procedures
- Functions

db2

- Tables
 - capital
 - country
- Views
- Stored Procedures
- Functions

sys

Administration Schemas

No object selected

SQL File 14* SQL File 17* SQL File 4* × SQL File 5* SQL File 6*

16 • `SELECT * FROM country;`

17

18

19 • `CREATE TABLE capital(`

20 `capital_id VARCHAR(10) NOT NULL,`

21 `country_code VARCHAR(10),`

22 `capital_name VARCHAR(100),`

23 `PRIMARY KEY (capital_id),`

24 `FOREIGN KEY (country_code) REFERENCES country(country_code)`

25 `);`

26

27 • `INSERT INTO capital`

28 `VALUES`

29 `('c1', 'IN', 'New Delhi'),`

30 `('c2', 'PK', 'Islamabad'),`

Output

Action Output

57% 🔋 ENG 📱

YES
TECH MEDIA

YouTube YesTechMedia

Type here to search

The screenshot shows the MySQL Workbench interface with a SQL editor tab active. The code being typed is for creating a 'capital' table with columns for capital_id (VARCHAR(10) NOT NULL), country_code (VARCHAR(10)), and capital_name (VARCHAR(100)). It includes primary key and foreign key constraints linking to the 'country' table. Below the table creation, there are two INSERT statements for rows 'c1' and 'c2'. The MySQL Workbench interface includes a Navigator pane showing database schemas like db1 and db2, and a status bar at the bottom.

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

Views

Stored Procedures

Functions

db2

Tables

capital

country

Views

Stored Procedures

Functions

sys

Administration Schemas

Information

No object selected

SQL File 14* SQL File 17* SQL File 4* × SQL File 5* SQL File 6*

Limit to 1000 rows

22 capital_name VARCHAR(100),
23 PRIMARY KEY (capital_id),
24 FOREIGN KEY (country_code) REFERENCES country(country_code)
25);
26
27 • INSERT INTO capital
28 VALUES
29 ('c1', 'IN', 'New Delhi'),
30 ('c2', 'PK', 'Islamabad'),
31 ('c3', 'NP', 'Kathmandu'); I

YouTube YesTechMedia

Object Info Session

Type here to search

Output

Action Output

58% ENG

```
22 capital_name VARCHAR(100),
23 PRIMARY KEY (capital_id),
24 FOREIGN KEY (country_code) REFERENCES country(country_code)
25 );
26
27 • INSERT INTO capital
28 VALUES
29 ('c1', 'IN', 'New Delhi'),
30 ('c2', 'PK', 'Islamabad'),
31 ('c3', 'NP', 'Kathmandu'); I
32
33
34
35 • SELECT * FROM capital;
36
```

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

Views

Stored Procedures

Functions

db2

Tables

capital

country

Views

Stored Procedures

Functions

sys

SQL File 14* SQL File 17* SQL File 4* SQL File 5* SQL File 6*

29 ('c1', 'IN', 'New Delhi'),
30 ('c2', 'PK', 'Islamabad'),
31 ('c3', 'NP', 'Kathmandu');

32

33

34

35 • **SELECT * FROM capital;**

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

capital_id	country_code	capital_name
c1	IN	New Delhi
c2	PK	Islamabad
c3	NP	Kathmandu

capital 21 x

Output

Action Output

Object Info Session

Type here to search

58% ENG 3

YES
TECH MEDIA

YouTube YesTechMedia

Result Grid

Form Editor

Field Types

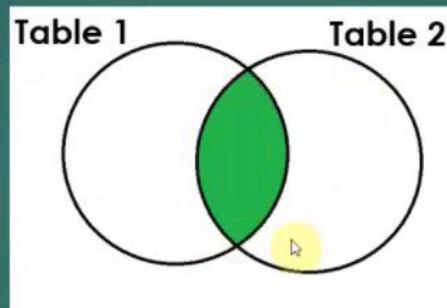
Query Stats

SQL Tutorial

SQL JOINS

- **INNER JOIN:** Returns records that have matching values in both tables.

country_code	country_name
BN	Bangladesh
IN	India
NP	Nepal
PK	Pakistan
SL	Sri Lanka



capital_id	country_code	capital_name
c1	IN	New Delhi
c2	PK	Islamabad
c3	NP	Kathmandu

country_code	country_name	capital_id	country_code	capital_name
IN	India	c1	IN	New Delhi
PK	Pakistan	c2	PK	Islamabad
NP	Nepal	c3	NP	Kathmandu

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas SQL File 14* SQL File 17* SQL File 4* × SQL File 5* SQL File 6*

Filter objects

SCHEMAS

- db1
 - Tables
 - Views
 - Stored Procedures
 - Functions
- db2
 - Tables
 - capital
 - country
 - Views
 - Stored Procedures
 - Functions
- sys

Administration Schemas

Information No object selected

38

39

40

41 /*Inner Join*/

42

43 · **SELECT ***

44 **FROM country INNER JOIN capital**

45 **ON country.country_code = capital.country_code;**

46

47

48

49

50

Output

Action Output

Type here to search

60% ENG

YES TECH MEDIA

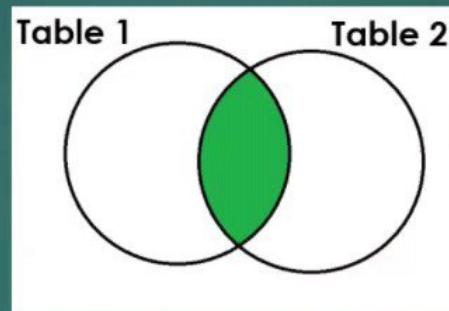
YouTube YesTechMedia

SQL Tutorial

SQL JOINS

- **INNER JOIN:** Returns records that have matching values in both tables.

country_code	country_name
BN	Bangladesh
IN	India
NP	Nepal
PK	Pakistan
SL	Sri Lanka



capital_id	country_code	capital_name
c1	IN	New Delhi
c2	PK	Islamabad
c3	NP	Kathmandu

country_code	country_name	capital_id	country_code	capital_name
IN	India	c1	IN	New Delhi
PK	Pakistan	c2	PK	Islamabad
NP	Nepal	c3	NP	Kathmandu

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

Views

Stored Procedures

Functions

db2

Tables

capital

country

Views

Stored Procedures

Functions

sys

SQL File 14* SQL File 17* SQL File 4* SQL File 5* SQL File 6*

41 /*Inner Join*/

42

43 • SELECT *

44 FROM country INNER JOIN capital

45 ON country.country_code = capital.country_code;

46

YouTube YesTechMedia

No object selected

Result Grid Filter Rows: Export: Wrap Cell Content:

country_code	country_name	capital_id	country_code	capital_name
IN	India	c1	IN	New Delhi
PK	Pakistan	c2	PK	Islamabad
NP	Nepal	c3	NP	Kathmandu

Result 24 x Read Only

Object Info Session

Type here to search

60% ENG 3

YES
TECH MEDIA

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

- Tables
- Views
- Stored Procedures
- Functions

db2

- Tables
 - capital
 - country
- Views
- Stored Procedures
- Functions

sys

SQL File 14* SQL File 17* SQL File 4* SQL File 5* SQL File 6*

42

43 · SELECT country.country_name, capital.country_code

44 FROM country INNER JOIN capital

45 ON country.country_code = capital.country_code;

46

47

Result Grid | Filter Rows: Export: Wrap Cell Content: □

No object selected

country_name	country_code
India	IN
Nepal	NP
Pakistan	PK

Result 25 x Read Only

Object Info Session Output Action Output

Type here to search

61% ENG 3

YES
TECH MEDIA

YouTube YesTechMedia

Result Grid Form Editor Field Types Query Stats

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

- Tables
- Views
- Stored Procedures
- Functions

db2

- Tables
 - capital
 - country
- Views
- Stored Procedures
- Functions

sys

SQL File 14* SQL File 17* SQL File 4* x SQL File 5* SQL File 6*

42

43 · SELECT country.country_name, capital.capital_name

44 FROM country INNER JOIN capital

45 ON country.country_code = capital.country_code;

46

47

Result Grid | Filter Rows: [] Export: [] Wrap Cell Content: []

No object selected

country_name	capital_name
India	New Delhi
Pakistan	Islamabad
Nepal	Kathmandu

Result 26 x Read Only

Object Info Session Output Action Output

Type here to search

61% ENG 3

YES TECH MEDIA

YouTube YesTechMedia

Result Grid

Form Editor

Field Types

Query Stats

SQL/MySQL Malayalam Tutorial



Left Join

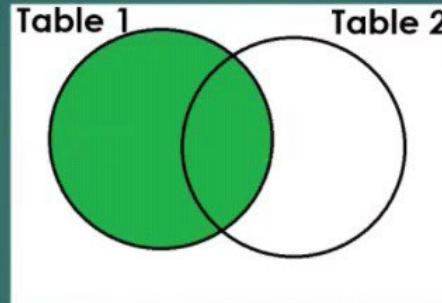
SQL Tutorial

YES
TECH MEDIA

SQL JOINS

- **LEFT [OUTER] JOIN:** Returns all records from the left table and matched records from the right table.

country_code	country_name
BN	Bangladesh
IN	India
NP	Nepal
PK	Pakistan
SL	Sri Lanka



capital_id	country_code	capital_name
c1	IN	New Delhi
c2	PK	Islamabad
c3	NP	Kathmandu

country_code	country_name	capital_id	country_code	capital_name
BN	Bangladesh			
IN	India	c1	IN	New Delhi
NP	Nepal	c3	NP	Kathmandu
PK	Pakistan	c2	PK	Islamabad
SL	Sri Lanka			



MySQL Workbench Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas SQL File 14* SQL File 17* SQL File 4* SQL File 5* SQL File 6*

Filter objects

SCHEMAS db1 db2 sys

Tables capital country Views Stored Procedures Functions

55
56 /*Left Join*/
57
58 • SELECT *
59 FROM country LEFT JOIN capital
60 ON country.country_code = capital.country_code;
61

Administration Schemas Information No object selected Result Grid Filter Rows: Export: Wrap Cell Content: Read Only

Result Grid Form Editor Field Types Query Stats

country_code	country_name	capital_id	country_code	capital_name
BN	Bangladesh			
IN	India	c1	IN	New Delhi
NP	Nepal	c3	NP	Kathmandu
PK	Pakistan	c2	PK	Islamabad
SL	Sri Lanka			

Result 1 x Output Action Output

Type here to search

66% ENG 3

YES TECH MEDIA

YouTube YesTechMedia

SQL/MySQL Malayalam Tutorial



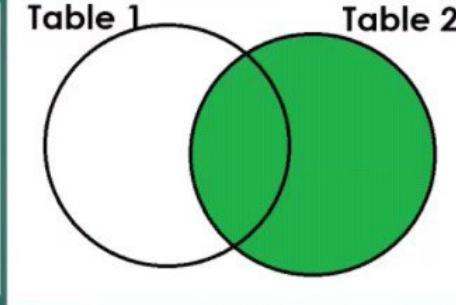
Right Join

SQL Tutorial

SQL JOINS

- **RIGHT [OUTER] JOIN:** Returns all records from the right table and matched records from the left table.

country_code	country_name
BN	Bangladesh
IN	India
NP	Nepal
PK	Pakistan
SL	Sri Lanka



capital_id	country_code	capital_name
c1	IN	New Delhi
c2	PK	Islamabad
c3	NP	Kathmandu

country_code	country_name	capital_id	country_code	capital_name
IN	India	c1	IN	New Delhi
PK	Pakistan	c2	PK	Islamabad
NP	Nepal	c3	NP	Kathmandu

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator SQL File 14* SQL File 17* SQL File 4* × SQL File 5* SQL File 6*

Filter objects

SCHEMAS db1 db2 sys

Tables capital country Views Stored Procedures Functions

70
71
72
73 /*Right Join*/
74
75 • **SELECT ***
76 **FROM country RIGHT JOIN capital**

Administration Schemas Information Result Grid Filter Rows: Export: Wrap Cell Content: No object selected

country_code country_name capital_id country_code capital_name

country_code	country_name	capital_id	country_code	capital_name
IN	India	c1	IN	New Delhi
PK	Pakistan	c2	PK	Islamabad
NP	Nepal	c3	NP	Kathmandu

Result 2 × Output Action Output

Object Info Session Read Only

Type here to search

70% ENG 3

YES TECH MEDIA

YouTube YesTechMedia

Result Grid Form Editor Field Types Query Stats

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

db2

- Tables
- capital
- country

Views

Stored Procedures

Functions

sys

SQL File 14* SQL File 17* SQL File 4* × SQL File 5* SQL File 6*

70

71

72

73 /*Right Join*/

74

75 • **SELECT ***

76 **FROM country RIGHT JOIN capital**

77 **ON country.country_code = capital.country_code;**

78

79

80

81

82

83

84

Administration Schemas

Information

No object selected

Output

Object Info Session Action Output

Type here to search

70% ENG 3

YES
TECH MEDIA

YouTube YesTechMedia

The screenshot shows the MySQL Workbench interface with a SQL editor tab open. The code is a SELECT statement performing a right join between the 'country' and 'capital' tables from the 'db2' schema. The 'capital' table is listed under the 'db2' schema in the Navigator pane. The code is numbered from 70 to 84. A yellow circle highlights the 'RIGHT JOIN' keyword. The MySQL icon in the system tray indicates the connection status.

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

db2

- Tables
- capital
- country

Views

Stored Procedures

Functions

sys

SQL File 14* SQL File 17* SQL File 4* × SQL File 5* SQL File 6*

70

71

72

73 /*Right Join*/

74

75 • **SELECT ***

76 **FROM country RIGHT JOIN capital**

Administration Schemas

Information

No object selected

Result Grid | Filter Rows: Export: Wrap Cell Content:

country_code	country_name	capital_id	country_code	capital_name
IN	India	c1	IN	New Delhi
PK	Pakistan	c2	PK	Islamabad
NP	Nepal	c3	NP	Kathmandu

Result 2 ×

Output

Action Output

Object Info Session

Type here to search

71% ENG 3

YES
TECH MEDIA

YouTube YesTechMedia

Result Grid

Form Editor

Field Types

Query Stats

Read Only

SQL/MySQL Malayalam Tutorial



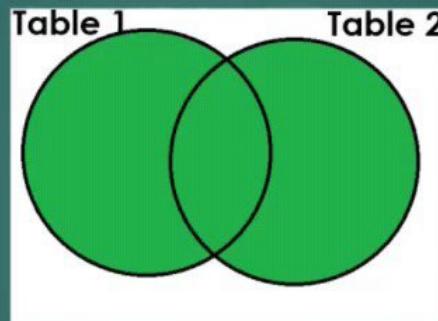
Full Join

SQL Tutorial

SQL JOINS

- **FULL [OUTER] JOIN:** Returns all the records from all tables. Combination of Left & Right joins. MySQL does not support FULL JOIN, we can achieve it by doing UNION of LEFT and RIGHT Joins.

country_code	country_name
BN	Bangladesh
IN	India
NP	Nepal
PK	Pakistan
SL	Sri Lanka



capital_id	country_code	capital_name
c1	IN	New Delhi
c2	PK	Islamabad
c3	NP	Kathmandu

country_code	country_name	capital_id	country_code	capital_name
BN	Bangladesh			
IN	India	c1	IN	New Delhi
NP	Nepal	c3	NP	Kathmandu
PK	Pakistan	c2	PK	Islamabad
SL	Sri Lanka			

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

db2

- Tables
- capital
- country

Views

Stored Procedures

Functions

sys

SQL File 14* SQL File 17* SQL File 4* × SQL File 5* SQL File 6*

85

86

87

88 /*Full Join*/

89

90 • SELECT *

91 FROM country LEFT JOIN capital

92 ON country.country_code = capital.country_code

93 UNION

94 SELECT *

95 FROM country RIGHT JOIN capital

96 ON country.country_code = capital.country_code;

97

98

99

No object selected

Administration Schemas

Information

YouTube YesTechMedia

Object Info Session Output Action Output

Type here to search

74% ENG 3

The screenshot shows the MySQL Workbench interface with a SQL editor tab active. The code being typed is a full join query between the 'country' and 'capital' tables. The 'country' table has a primary key 'country_code' and the 'capital' table has a foreign key 'country_code'. The query uses 'LEFT JOIN' to keep all rows from the 'country' table and 'RIGHT JOIN' to keep all rows from the 'capital' table. The 'UNION' operator is used to combine the results of both joins. The MySQL version is 8.0, indicated by the 'MySQL 80' in the title bar.

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator SQL File 14* SQL File 17* SQL File 4* x SQL File 5* SQL File 6*

SCHEMAS db1 db2 sys

Filter objects

85
86
87
88 /*Full Join*/
89
90 • **SELECT ***
91 **FROM country LEFT JOIN capital**

Administration Schemas Information No object selected

Result Grid Filter Rows: Export: Wrap Cell Content: Result 3 x Output Action Output

Read Only

Result Grid Form Editor Field Types Query Stats

YES TECH MEDIA

YouTube YesTechMedia

74% ENG 3

country_code	country_name	capital_id	country_code	capital_name
BN	Bangladesh			
IN	India	c1	IN	New Delhi
NP	Nepal	c3	NP	Kathmandu
PK	Pakistan	c2	PK	Islamabad
SL	Sri Lanka			

Type here to search

SQL/MySQL Malayalam Tutorial



IF Function

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1 db2 sys

SQL File 14* SQL File 17* SQL File 4* SQL File 5* SQL File 6* SQL File 7* × SQL File 8* SQL File 9*

Limit to 500 rows

1 /* IF() */
2
3
4· SELECT if(10>20, "Value1", "value2") AS result;
5
6

Administration Schemas

Information

No object selected

Result Grid | Filter Rows: Export: Wrap Cell Content:

result
value2

Result 3 ×

Object Info Session Output

Type here to search

77% ENG 4

YES TECH MEDIA

YouTube YesTechMedia

Result Grid Form Editor Field Types Query Stats Read Only

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

- Tables
- Views
- Stored Procedures
- Functions

db2

sys

SQL File 14* SQL File 17* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 8* SQL File 9*

Limit to 500 rows

2

3

4· **SELECT if(10<20, "Value1", "value2") AS result;**

5

6· **USE db1;**

7· **SELECT student_name, age,**

Administration Schemas

Information

No object selected

Result Grid | Filter Rows: Export: Wrap Cell Content:

student_name	age	student_type
Akhil	20	Adult
Santosh	25	Adult
Manju	18	Adult
Shareef	13	Minor
Praveen	32	Adult
John	20	Adult
Akhil	20	Adult
Aneesh	14	Minor
	20	Adult

Result 7 ×

Object Info Session Output

Result Grid Form Editor Field Types Query Stats Read Only

Type here to search

76% ENG 4

YES
TECH MEDIA

YouTube YesTechMedia

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

Views

Stored Procedures

Functions

db2

sys

SQL File 14* SQL File 17* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 8* SQL File 9*

Limit to 500 rows

1 /* IF() */

2

3

4· SELECT if(10<20, "Value1", "value2") AS result;

5

6· USE db1;

7· SELECT student_name, age,

8· if(age>=18, "Adult", "Minor") AS student_type

9· FROM student;

10

11

12

13

YouTube YesTechMedia

No object selected

Administration Schemas

Information

Object Info Session Output

Type here to search

76%

TECH MEDIA

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

- Tables
- Views
- Stored Procedures
- Functions

db2

sys

SQL File 14* SQL File 17* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 8* SQL File 9*

Limit to 500 rows

2

3

4· **SELECT if(10<20, "Value1", "value2") AS result;**

5

Result Grid | Filter Rows: Export: Wrap Cell Content:

student_name	age	student_type
Akhil	20	Adult
Santosh	25	Adult
Manju	18	Adult
Shareef	13	Minor
Praveen	32	Adult
John	20	Adult
Akhil	20	Adult
Aneesh	14	Minor
Lakshmi	20	Adult
Cyril	12	Minor

Result 7

Object Info Session Output

Read Only

76%

YES
TECH MEDIA

YouTube YesTechM

Result Grid Form Editor Field Types Query Stats Execution Plan

Type here to search

SQL/MySQL Malayalam Tutorial



IFNULL Function

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

- Tables
- Views
- Stored Procedures
- Functions

db2

- Tables
 - capital
 - country
- Views
- Stored Procedures
- Functions

sys

SQL File 14* SQL File 17* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 8* SQL File 9*

Limit to 500 rows

4

5 /* IFNULL() */

6

7 • **SELECT ifnull(2, "Hello") as result;**

8

9

10

YouTube YesTechMedia

No object selected

Result Grid | Filter Rows: [] Export: [] Wrap Cell Content: []

result
2

Result 15

Object Info Session Output

Type here to search

69% ENG 4

The screenshot shows the MySQL Workbench application interface. In the central query editor, a simple SELECT statement is written:

```
4
5 /* IFNULL() */
6
7 • SELECT ifnull(2, "Hello") as result;
8
9
10
```

The results grid below shows the output of the query:

result
2

On the right side, there is a vertical toolbar with icons for Result Grid, Form Editor, Field Types, and Query Bar. The 'Result Grid' icon is currently selected. The status bar at the bottom right indicates a battery level of 69%, the language is set to English (ENG), and there are four notifications.

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas SQL File 14* SQL File 17* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 8* SQL File 9* ×

Filter objects

SCHEMAS

db1

- Tables
- Views
- Stored Procedures
- Functions

db2

- Tables
 - capital
 - country
- Views
- Stored Procedures
- Functions

sys

Administration Schemas Information

No object selected

19

20

21 /*Left Join*/

22 • USE db2;

23 • SELECT country.country_name, capital.capital_name

24 FROM country LEFT JOIN capital

25 ON country.country_code = capital.country_code;

26

27

28

29

30

31

32

Object Info Session Output

Type here to search

69% ENG 4

YES TECH MEDIA

YouTube YesTechMedia

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

Views

Stored Procedures

Functions

db2

Tables

capital

country

Views

Stored Procedures

Functions

sys

Administration Schemas Information

No object selected

Result Grid | Filter Rows: Export: Wrap Cell Content:

country_name	capital_name
Bangladesh	HULL
India	New Delhi
Nepal	Kathmandu
Pakistan	Islamabad
Sri Lanka	HULL

Result 16 x

Object Info Session Output

Type here to search

69% ENG 4

YES TECH MEDIA

YouTube YesTechMedia

```
19
20
21 /*Left Join*/
22 USE db2;
23 SELECT country.country_name, capital.capital_name
24 FROM country LEFT JOIN capital
25 ON country.country_code = capital.country_code;
```

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

Views

Stored Procedures

Functions

db2

Tables

capital

country

Views

Stored Procedures

Functions

sys

SQL File 14* SQL File 17* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 8* SQL File 9*

Limit to 500 rows

22 USE db2;

23 SELECT country.country_name,

24 ifnull(capital.capital_name, "Not Defined")

25 FROM country LEFT JOIN capital

26 ON country.country_code = capital.country_code;

27

28

29

Result Grid | Filter Rows: Export: Wrap Cell Content: < >

No object selected

YouTube YesTechMedia

Result Grid

Form Editor

Field Types

Read Only

	country_name	ifnull(capital.capital_name, "Not Defined")
>	Bangladesh	Not Defined
	India	New Delhi
	Nepal	Kathmandu
	Pakistan	Islamabad
	Sri Lanka	Not Defined

Result 17 x

Object Info Session Output

Type here to search

68% ENG 4

This screenshot shows the MySQL Workbench interface. The top navigation bar includes 'File', 'Edit', 'View', 'Query', 'Database', 'Server', 'Tools', 'Scripting', and 'Help'. Below the navigation is a toolbar with various icons. The main area displays a SQL editor with the following code:

```
22 USE db2;
23 SELECT country.country_name,
24 ifnull(capital.capital_name, "Not Defined")
25 FROM country LEFT JOIN capital
26 ON country.country_code = capital.country_code;
27
28
29
```

The results of the query are shown in a 'Result Grid' window below:

	country_name	ifnull(capital.capital_name, "Not Defined")
>	Bangladesh	Not Defined
	India	New Delhi
	Nepal	Kathmandu
	Pakistan	Islamabad
	Sri Lanka	Not Defined

The 'Result Grid' window also has buttons for 'Filter Rows', 'Export', and 'Wrap Cell Content'. On the right side of the interface, there are tabs for 'Result Grid', 'Form Editor', 'Field Types', and 'Read Only'. The bottom of the screen shows a taskbar with icons for File Explorer, Google Chrome, and Task View, along with system status indicators like battery level (68%), language (ENG), and notifications (4).

MySQL Workbench Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

Views

Stored Procedures

Functions

db2

Tables

capital

country

Views

Stored Procedures

Functions

sys

SQL File 14* SQL File 17* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 8* SQL File 9*

Limit to 500 rows

22 USE db2;

23 SELECT country.country_name,

24 ifnull(capital.capital_name, "Not Defined") AS capita_name

25 FROM country LEFT JOIN capital

26 ON country.country_code = capital.country_code;

27

28

29

YouTube YesTechMedia

No object selected

Result Grid | Filter Rows: Export: Wrap Cell Content: Result 18 x Object Info Session Output

Result Grid

Form Editor

Field Types

Read Only

country_name	capita_name
Bangladesh	Not Defined
India	New Delhi
Nepal	Kathmandu
Pakistan	Islamabad
Sri Lanka	Not Defined

Type here to search

68% ENG 4

```
USE db2;
SELECT country.country_name,
       ifnull(capital.capital_name, "Not Defined") AS capita_name
  FROM country
 LEFT JOIN capital
    ON country.country_code = capital.country_code;
```

country_name	capita_name
Bangladesh	Not Defined
India	New Delhi
Nepal	Kathmandu
Pakistan	Islamabad
Sri Lanka	Not Defined

SQL/MySQL Malayalam Tutorial



ISNULL Function

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

- Tables
- Views
- Stored Procedures
- Functions

db2

- Tables
 - capital
 - country
- Views
- Stored Procedures
- Functions

sys

SQL File 14* SQL File 17* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 8* SQL File 9*

Limit to 500 rows

37

38

39 /* ISNULL() */

40

41 • **SELECT isnull(2) AS result;**

42

43

44

45

46

47

48

49

No object selected

Administration Schemas

Information

Object Info Session

Type here to search

Output

65%

YES TECH MEDIA

YouTube YesTechMedia

The screenshot shows the MySQL Workbench interface. In the central query editor, there is a syntax error in the SQL code. The code is as follows:

```
37
38
39 /* ISNULL() */
40
41 • SELECT isnull(2) AS result;
42
43
44
45
46
47
48
49
```

The line '41 •' is highlighted in blue, indicating a syntax error. A yellow circle with the letter 'I' is positioned over the line, pointing to the error. The error message 'Unrecognized function 'isnull'' is displayed in the status bar at the bottom of the screen.

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

Views

Stored Procedures

Functions

db2

Tables

capital

country

Views

Stored Procedures

Functions

sys

SQL File 14* SQL File 17* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 8* SQL File 9*

Limit to 500 rows

22· USE db2;

23· SELECT country.country_name,

24· isnull(capital.capital_name) as capital_name

25· FROM country LEFT JOIN capital

26· ON country.country_code = capital.country_code;

27

28

No object selected

Result Grid Filter Rows: Export: Wrap Cell Content:

country_name	capital_name
Bangladesh	1
India	0
Nepal	0
Pakistan	0
Sri Lanka	1

Result 23

Object Info Session Output

Type here to search

64%

YES TECH MEDIA

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Result Grid Form Editor Field Types Read Only

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Schemas

Filter objects

db1

Tables

Views

Stored Procedures

Functions

db2

Tables

capital

country

Views

Stored Procedures

Functions

sys

SQL File 14* SQL File 17* SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 8* SQL File 9*

Limit to 500 rows

22· USE db2;

23· SELECT country.country_name, capital.capital_name,

24 isnull(capital.capital_name) as capital_name

25 FROM country LEFT JOIN capital

26 ON country.country_code = capital.country_code;

27

28

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No object selected

Result Grid Filter Rows: Export: Wrap Cell Content:

country_name	capital_name	capital_name
Bangladesh		1
India	New Delhi	0
Nepal	Kathmandu	0
Pakistan	Islamabad	0
Sri Lanka		1

Result 24

Object Info Session Output

Type here to search

63% ENG 4

country_name	capital_name	capital_name
Bangladesh		1
India	New Delhi	0
Nepal	Kathmandu	0
Pakistan	Islamabad	0
Sri Lanka		1

SQL/MySQL Malayalam Tutorial



CASE Function

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables: student, student1

Views

Stored Procedures

Functions

db2

Tables

Views

Stored Procedures

Functions

sys

SQL File 14* SQL File 5* SQL File 6* SQL File 8*

1 /* CASE Function */
2 USE db2;
3 SELECT * FROM country;
4

Administration Schemas Information

No object selected

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

country_code	country_name
BN	Bangladesh
IN	India
NP	Nepal
PK	Pakistan
SL	Sri Lanka

Object Info Session Output

Type here to search

54% ENG 4

YES
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MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

student

student1

Views

Stored Procedures

Functions

db2

Tables

Views

Stored Procedures

Functions

sys

Administration Schemas

Information

No object selected

SQL File 14* SQL File 5* SQL File 6* SQL File 8*

Limit to 500 rows

2 · USE db2;

3

4 · SELECT country_name,

5 CASE

6 WHEN country_name = "India" THEN "Hindi"

7 WHEN country_name = "Pakistan" THEN "Urdu"

8 WHEN country_name = "Nepal" THEN "Nepali"

9 WHEN country_name = "Srilanka" THEN "Sinhala"

10 ELSE "Bengali"

11 END as Official_lang

12 FROM country;

13

Object Info Session Output

Type here to search

57% ENG 4

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables

student

student1

Views

Stored Procedures

Functions

db2

Tables

Views

Stored Procedures

Functions

sys

SQL File 14* SQL File 5* SQL File 6* SQL File 8*

Limit to 500 rows

2 · USE db2;

3

4 · SELECT country_name,

5 CASE

WHEN country_name = "India" THEN "Hindi"

WHEN country_name = "Pakistan" THEN "Urdu"

Result Grid

Filter Rows:

Exports: Wrap Cell Content:

country_name Official_lang

country_name	Official_lang
Bangladesh	Bengali
India	Hindi
Nepal	Nepali
Pakistan	Urdu
Sri Lanka	Bengali

Result 8

Object Info Session Output

Type here to search

57% ENG 4

YES
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MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

db1

Tables student student1

Views

Stored Procedures

Functions

db2

Tables

Views

Stored Procedures

Functions

sys

SQL File 14* SQL File 5* SQL File 6* SQL File 8*

Limit to 500 rows

2 · USE db2;

3

4 · SELECT country_name,

5 CASE

WHEN country_name = "India" THEN "Hindi"

WHEN country_name = "Pakistan" THEN "Urdu"

Result Grid

Filter Rows:

Export: Wrap Cell Content:

country_name Official_lang

country_name	Official_lang
Bangladesh	Bengali
India	Hindi
Nepal	Nepali
Pakistan	Urdu
Sri Lanka	Sinhala

Result 10

Object Info Session Output

Type here to search

58% ENG 4

YES
TECH MEDIA

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MySQL Workbench Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

Filter objects

SCHEMAS

db1

Tables student student1

Views

Stored Procedures

Functions

db2

Tables

Views

Stored Procedures

Functions

sys

Administration Schemas Information

No object selected

SQL File 14* SQL File 5* SQL File 6* SQL File 8*

Limit to 500 rows

4 • SELECT country_name,

5 CASE

6 WHEN country_name = "India" THEN "Hindi"

7 WHEN country_name = "Pakistan" THEN "Urdu"

8 WHEN country_name = "Nepal" THEN "Nepali"

9 WHEN country_name = "Sri Lanka" THEN "Sinhala"

10 ELSE "Bengali"

11 END as Official_lang

12 FROM country;

Result Grid Filter Rows: Export: Wrap Cell Content:

country_name	Official_lang
Bangladesh	Bengali
India	Hindi
Nepal	Nepali
Pakistan	Urdu
Sri Lanka	Sinhala

Result 10 x

Object Info Session Output

Type here to search

58% ENG 4

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Result Grid Form Editor Field Types Read Only