

Database Access

PHP to MySql Database connection in WAMP Server

- you must be install any **XAMPP** or **WAMP** or **MAMP** kind of software on your laptop or computer. With this software, you will get a local webserver i.e. Apache, PHP language, and MySQL database.
- WAMP is an acronym formed from the initials of the operating system Microsoft Windows and the principal components of the package: Apache, MySQL and one of PHP, Perl or Python.
- Apache is a web server.
- MySQL is an open-source database.
- PHP, Perl and Python are scripting languages that can manipulate information held in a database and generate web pages dynamically each time content is requested by a browser.
- Other programs may also be included in a package, such as phpMyAdmin which provides a graphical user interface for the MySQL database manager.

Procedure to Create webpage, Connect to database and Inserting data.

- Install Wamp Server on PC.
- Now Start the Wamp Server.
- Go to browser and type **localhost:80/phpmyadmin.**



The image shows the phpMyAdmin login interface. At the top, there is a logo for phpMyAdmin featuring a sailboat and the text "phpMyAdmin". Below the logo, it says "Welcome to phpMyAdmin". There are two main sections: "Language" and "Log in". The "Language" section has a dropdown menu currently set to "English". The "Log in" section has three input fields: "Username:" with the value "root", "Password:" (empty), and "Server Choice:" with a dropdown menu set to "MySQL". A "Go" button is located at the bottom right of the login section.

Set the username as **root** and make empty password column and hit go. The admin page window will open like the following,

The screenshot shows the phpMyAdmin web interface in a browser window. The address bar displays 'localhost/phpmyadmin/'. The interface includes a top navigation bar with tabs for 'Databases', 'SQL', 'Status', 'User accounts', 'Export', 'Import', and 'Settings'. On the left side, there is a sidebar with the 'phpMyAdmin' logo, a 'Current server:' dropdown menu set to 'MySQL', and a tree view of databases including 'information_schema', 'mysql', 'performance_schema', 'phpdatabase', 'sys', and 'wp_project'. The main content area is divided into two sections: 'General settings' and 'Appearance settings'. The 'General settings' section includes a 'Change password' link, a 'Server connection collation:' dropdown menu set to 'utf8mb4_unicode_ci', and a 'More settings' link. The 'Appearance settings' section includes a 'Language' dropdown menu set to 'English' and a 'Theme' dropdown menu set to 'pmahomme' with a 'View all' button.

Select database tab and now create database by entering database name.

The screenshot shows the phpMyAdmin interface for a MySQL server. The browser address bar shows the URL: localhost/phpmyadmin/index.php?route=/server/databases. The page title is "Server: MySQL:3308". The main navigation bar includes "Databases", "SQL", "Status", "User accounts", "Export", and "Import". The "Databases" tab is selected. On the left sidebar, the "Current server" is set to "MySQL". Below it are "Recent" and "Favorites" buttons. A tree view shows the following databases: New, information_schema, mysql, performance_schema, phpdatabase, sys, and wp_project. The main content area is titled "Databases" and features a "Create database" button. Below this button is a form with a text input field containing "student", a dropdown menu showing "utf8mb4_0900_ai_ci", and a "Create" button. Below the form are "Check all" and "Drop" buttons. At the bottom, a table lists existing databases:

	Database	Collation	Action
<input type="checkbox"/>	information_schema	utf8mb3_general_ci	Check privileges
<input type="checkbox"/>	mysql	utf8mb4_0900_ai_ci	Check privileges

Now your database will present at left side php myadmin page,

The screenshot shows the phpMyAdmin web interface. The browser address bar displays `localhost/phpmyadmin/index.php?route=/server/databases`. The main header shows the phpMyAdmin logo and navigation icons. Below the logo, the 'Current server' is set to 'MySQL'. The left sidebar contains a tree view of databases, with 'student' selected and highlighted. The main content area shows the 'Database: student' view with tabs for 'Structure', 'SQL', 'Search', 'Query', 'Export', and 'Import'. A message box states 'No tables found in database.' Below this, the 'Create new table' dialog is open, featuring a 'Table name' input field, a 'Number of columns' input field with the value '4', and a 'Create' button.



Current server:

MySQL

Recent Favorites

- New
- information_schema
- mysql
- performance_schema
- phpdatabase
- student
- sys
- wp_project

Structure SQL Search Query Export Import Operations Privileges Routines Events

Table name: info Add 1 column(s) Go

Structure

Name	Type	Length/Values	Default	Collation	Attributes	Null
first	VARCHAR	20	None			<input type="checkbox"/>
last	VARCHAR	20	None			<input type="checkbox"/>

Table comments: Collation: Storage Engine: MyISAM

PARTITION definition: Partition by: (Expression or column list) Partitions:

Preview SQL Save



Current server:

MySQL

Recent Favorites

- New
- information_schema
- mysql
- performance_schema
- phpdatabase
- student
 - New
 - info
- sys
- wp_project

Server: MySQL:3308 » Database: student » Table: info

- Browse
- Structure
- SQL
- Search
- Insert
- Export
- Import
- Privileges
- Operations
- Triggers

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1	first	varchar(20)	utf8mb4_0900_ai_ci		No	None		Change Drop More
<input type="checkbox"/>	2	last	varchar(20)	utf8mb4_0900_ai_ci		No	None		Change Drop More

Check all With selected: Browse Change Drop Primary Unique Index Spatial Fulltext

Print Move columns Normalize

Add column(s)

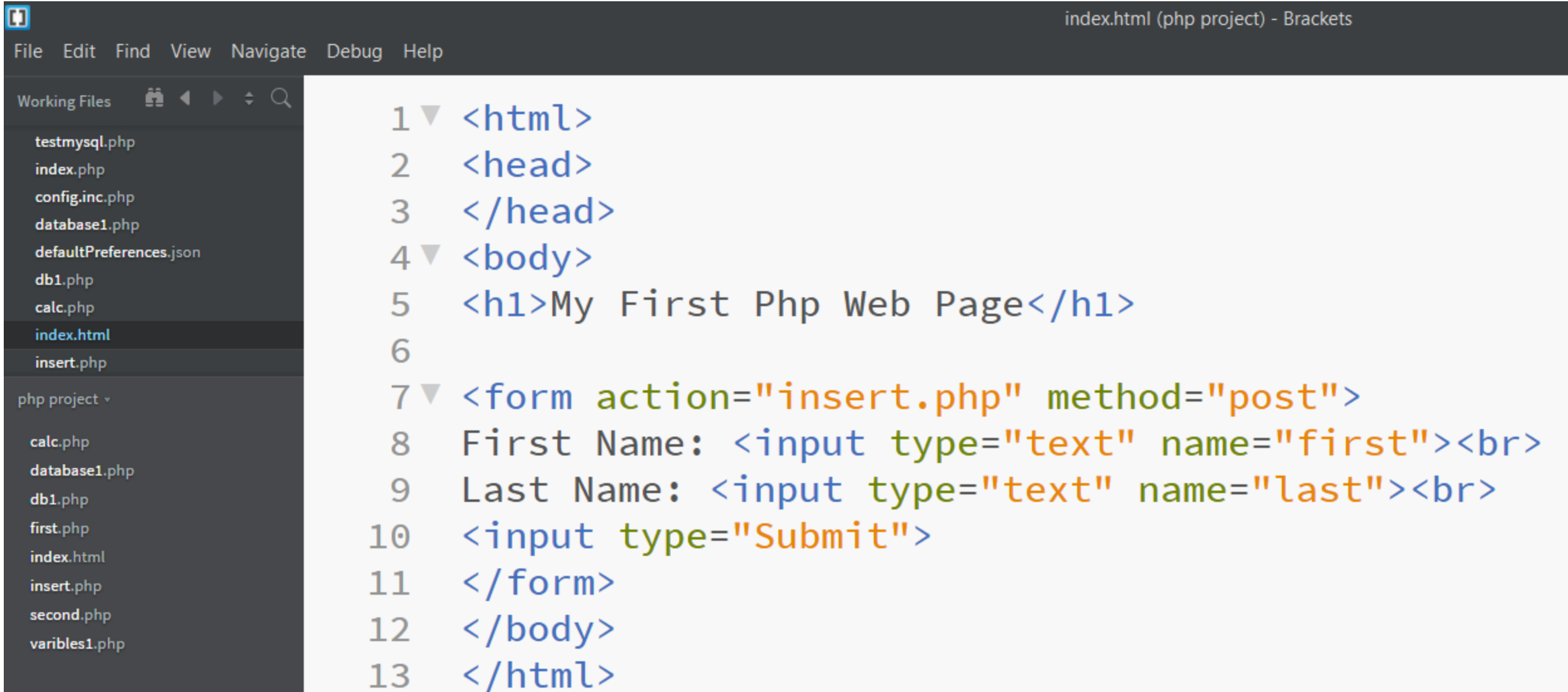
Indexes

No index defined!

Create an index on columns

Partitions

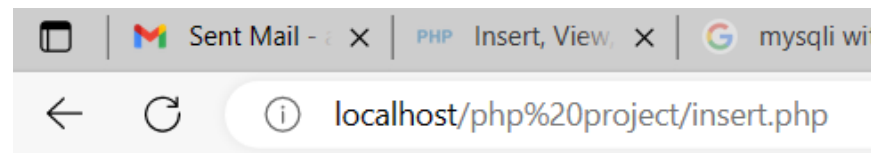
Insert form data into mysql Procedural



```
index.html (php project) - Brackets
File Edit Find View Navigate Debug Help
Working Files
testmysql.php
index.php
config.inc.php
database1.php
defaultPreferences.json
db1.php
calc.php
index.html
insert.php
php project ▾
calc.php
database1.php
db1.php
first.php
index.html
insert.php
second.php
variables1.php
1 <html>
2 <head>
3 </head>
4 <body>
5 <h1>My First Php Web Page</h1>
6
7 <form action="insert.php" method="post">
8 First Name: <input type="text" name="first"><br>
9 Last Name: <input type="text" name="last"><br>
10 <input type="Submit">
11 </form>
12 </body>
13 </html>
```

```
File Edit Find View Navigate Debug Help
Working Files
testmysql.php
index.php
config.inc.php
database1.php
defaultPreferences.json
db1.php
calc.php
index.html
• insert.php
php project
calc.php
database1.php
db1.php
first.php
index.html
insert.php
second.php
variables1.php

1 <?php
2 $database="student"; //database name
3 $first=$_POST['first'];//values comes from html file after submitting
4 $last=$_POST['last'];
5 $con = mysqli_connect("localhost:3308","root" ,"",$database);//for wamp 3rd feild
   balnk
6 if (!$con)
7 {
8 die('Could not connect: ' . mysqli_error());
9 }
10 $query = "INSERT INTO info (first,last)VALUES ('$first','$last)";
11 mysqli_query($con,$query);
12 echo "you are Succesflly registered";
13 mysqli_close($con);
14 ?>
```



you are Succesflly registered

localhost/phpmyadmin/index.php?route=/sql&pos=0&db=student&table=info

phpMyAdmin

Current server: MySQL

Recent Favorites

- New
- information_schema
- mysql
- performance_schema
- phpdatabase
- student
 - New
 - info
- sys
- wp_project

Server: MySQL:3308 » Database: student » Table: info

Browse Structure SQL Search Insert Export Import

⚠ Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are disabled.

✔ Showing rows 0 - 2 (3 total, Query took 0.0063 seconds.)

```
SELECT * FROM `info`
```

Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

Show all | Number of rows: 25 | Filter rows:

Extra options

first	last
a	b
a	b
chaitanya	Konda

Connection to MySQL Using MySQLi

using MySQLi Object-Oriented method to Open a Connection to MySQL.

```
<?php
$servername = "localhost";
$username = "username";
$password = "password";
$dbname = "database";
// Create connection
$conn = new mysqli($servername, $username, $password,$dbname);

// Check connection
if ($conn->connect_error) {
die("Connection failed: " . $conn->connect_error);
}
echo "Connected successfully";
?>
```

```
<html>
<head>
<title>insert data in database using mysqli</title>
<link rel="stylesheet" type="text/css" href="style.css">
</head>
<body>

<div id="main">
<h1>Insert data into database using mysqli</h1>
<div id="login">
<h2>Student's Form</h2>
<hr/>
<form action="" method="post">
<label>Student Name :</label>
<input type="text" name="stu_name" id="name" required="required" placeholder="Please Enter Name"/><br /><br />
<label>Student Email :</label>
<input type="email" name="stu_email" id="email" required="required" placeholder="john123@gmail.com"/><br /><br />
<label>Student City :</label>
<input type="text" name="stu_city" id="city" required="required" placeholder="Please Enter Your City"/><br />
<input type="submit" value=" Submit " name="submit"/><br />
</form>
```

```
<?php
if(isset($_POST["submit"])){
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "college";

// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);
// Check connection
if ($conn->connect_error) {
die("Connection failed: " . $conn->connect_error);
}

$sql = "INSERT INTO students (student_name, student_email, student_city)
VALUES ('".$_POST["stu_name"]."', '".$_POST["stu_email"]."', '".$_POST["stu_city"]."'");

if ($conn->query($sql) === TRUE) {
echo "<script type= 'text/javascript'>alert('New record created successfully');</script>";
} else {
echo "<script type= 'text/javascript'>alert('Error: " . $sql . "<br>" . $conn->error.'');</script>";
}

$conn->close();
}
?>
</body>
</html>
```

Insert multiple

```
$sql = "INSERT INTO MyGuests (firstname, lastname, email)
VALUES ('John', 'Doe', 'john@example.com');";
$sql .= "INSERT INTO MyGuests (firstname, lastname, email)
VALUES ('Mary', 'Moe', 'mary@example.com');";
$sql .= "INSERT INTO MyGuests (firstname, lastname, email)
VALUES ('Julie', 'Dooley', 'julie@example.com')";

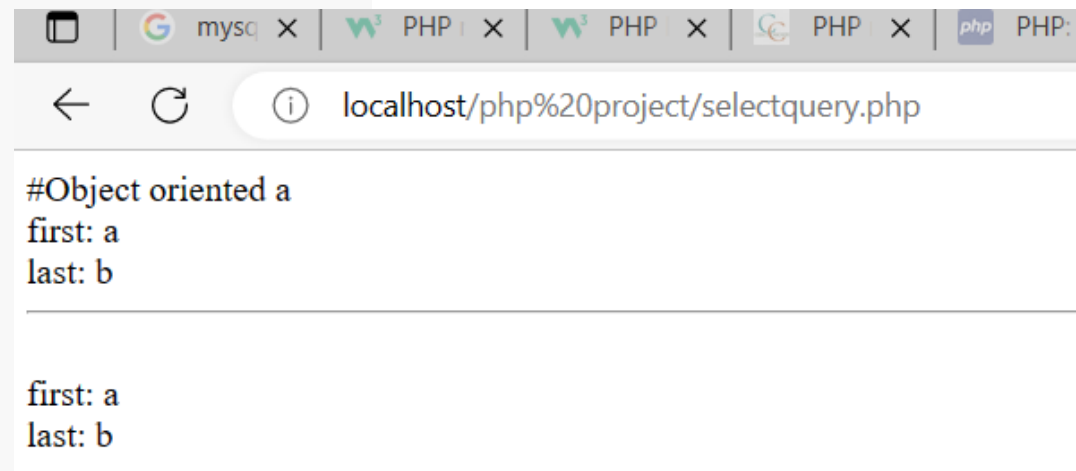
if ($conn->multi_query($sql) === TRUE) {
    echo "New records created successfully";
} else {
    echo "Error: " . $sql . "<br>" . $conn->error;
}
```

Retrieve records from the mysqli database

```
#Object oriented
<html>
<body>
<?php
    $conn = new mysqli("localhost:3308", "root", "", "student");
    if(!$conn -> connect_errno)
    {
        $sql = "SELECT * FROM info";
        if($result = $conn -> query($sql))
        {
            while($row = $result -> fetch_row())
            {
                echo "<BR>";
                echo "first: ", $row[0];
                echo "<BR>";
                echo "last: ", $row[1];
                echo "<HR>";
            }
            $result -> free_result();
        }
    }
    $conn -> close();
?>
</body>
</html>
```



```
<html>
<body>
<?php
    $conn = new mysqli("localhost:3308", "root", "", "student");
    if(!$conn -> connect_errno)
    {
        $f=$_POST['first'];
        $sql = "SELECT * FROM info WHERE first='$f'";
        if($result = $conn -> query($sql))
        {
            while($row = $result -> fetch_row())
            {
                echo "<BR>";
                echo "first: ", $row[0];
                echo "<BR>";
                echo "last: ", $row[1];
                echo "<HR>";
            }
            $result -> free_result();
        }
        $conn -> close();
    }
?>
</body>
</html>
```





Current server:

MySQL

Recent Favorites

- New
- information_schema
- mysql
- performance_schema
- phpdatabase
- student
 - New
 - info
- sys
- wp_project

Table name: details Add 1 column(s) Go

Structure





















Name	Type	Length/Values	Default	Collation	Attributes
id	INT	10	None		
fname	VARCHAR	20	None		
lname	VARCHAR	20	None		
mailid	VARCHAR	30	None		

Table comments: Collation: Storage Engine: MyISAM

PARTITION definition: Partition by: (Expression or column list)

Update query







```
1  <?php
2  // Create connection
3  $conn = new mysqli("localhost:3308", "root", "", "student");
4  // Check connection
5  ▼ if ($conn->connect_error) {
6      die("Connection failed: " . $conn->connect_error);
7  }
8  $query = "INSERT INTO details (id, fname, lname, mailid) VALUES
9      (1, 'konda', 'chaitanya', 'anu.konda.chaitanya@gmail.com')";
10 mysqli_query($conn, $query);
11 $query = "INSERT INTO details (id, fname, lname, mailid) VALUES
12      (2, 'aaa', 'bbb', 'anu.konda.chaitanya1@gmail.com')";
13 ▼ mysqli_query($conn, $query);
14     echo "Record updated successfully";
15 ▼ } else {
16     echo "Error updating record: " . $conn->error;
17 }
18 $conn->close();
19 ?>
```

-  New
-   information_schema
-   mysql
-   performance_schema
-   phpdatabase
-   student
 -  New
 -   details
 -   info
-   sys
-   wp_project

Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

Show all | Number of rows: 25 Sort by key:






Extra options

				id	fname	lname	mailid
<input type="checkbox"/>				1	konda	chaitanya	anu.konda.chaitanya@gmail.com
<input type="checkbox"/>				2	aaa	ZZZZ	anu.konda.chaitanya1@gmail.com

Check all | *With selected:*  Edit  Copy  Delete  Export

Show all | Number of rows: 25 Sort by key:

Query results operations

 Print  Copy to clipboard  Export  Display chart  Create view

Delete record

```
1  <?php
2  // Create connection
3  $conn = new mysqli("localhost:3308", "root", "", "student");
4  // Check connection
5  ▼ if ($conn->connect_error) {
6      die("Connection failed: " . $conn->connect_error);
7  }
8  $sql = "DELETE FROM details WHERE id=2";
9  ▼ if ($conn->query($sql) === TRUE) {
10     echo "Record deleted successfully";
11  ▼ } else {
12     echo "Error deleting record: " . $conn->error;
13  }
14  $conn->close();
15  ?>
```

```
#mysqli procedural
<?php
// Create connection
$conn = mysqli_connect("localhost:3308", "root", "", "student");
// Check connection
if (!$conn) {
    die("Connection failed: " . mysqli_connect_error());
}

// sql to delete a record
$sql = "DELETE FROM details WHERE id=2";

if (mysqli_query($conn, $sql)) {
    echo "Record deleted successfully";
} else {
    echo "Error deleting record: " . mysqli_error($conn);
}

mysqli_close($conn);
?>
```



Current server:

MySQL

Recent Favorites

- New
- information_schema
- mysql
- performance_schema
- phpdatabase
- student
 - New
 - details
 - info
- sys
- wp_project

[Browse](#) [Structure](#) [SQL](#) [Search](#) [Insert](#) [Export](#) [Import](#)

Showing rows 0 - 0 (1 total, Query took 0.0005 seconds.)

```
SELECT * FROM `details`
```

Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

	id	fname	lname	mailid
<input type="checkbox"/> Edit Copy Delete	1	konda	chaitanya	anu.konda.chaitanya@gmail.com

Check all | With selected: Edit Copy Delete Export

Show all | Number of rows: 25 | Filter rows: Search this table