

## Summary to php CRUD

CRUD Operations are typically performed on databases, hence, in this PHP CRUD Operations tutorial, you will implement CRUD techniques on MySQLI databases with the help of PHP.

The CRUD acronym comprises all the major operations that are performed on a relational database. It stands for:

C = Create

R = Read

U = Update

D = Delete

You will now understand the different operations in detail.

### **1)how to create a MySQLI database connection?**

First, create a connection between the database and your PHP code.

The following code acts as the connection between the webpage and the database where the data from the webpage will be stored.

Here, name the file as config.php

```
<? php
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "mydb";

$conn = new mysqli($servername, $username, $password, $dbname);
if ($conn==true) {
    echo" db is connected";
    else {
        echo" db is not connected";
    }
?>
```

### **2) how to create Records? (Insert data into database)**

The first operation in PHP CRUD Operations, Create, is responsible for creating tables or new records into an existing table. To do that, first, you must write the code for the webpage to create an entry in the database.

Name the file as create.php.

```
<? php
```

```
include "config.php";
```

```
if (isset($_POST['submit'])) {
```

```
    $first_name = $_POST['firstname'];
```

```
    $last_name = $_POST['lastname'];
```

```
    $email = $_POST['email'];
```

```
    $password = $_POST['password'];
```

```
    $gender = $_POST['gender'];
```

```
    $sql = "INSERT INTO `users` (`firstname`, `lastname`, `email`, `password`, `gender`) VALUES  
('{$first_name}', '{$last_name}', '{$email}', '{$password}', '{$gender}')";
```

```
    $result = mysqli_query($conn, $sql);
```

```
    if ($result == TRUE) {
```

```
        echo "New record created successfully.";
```

```
    } else {
```

```
        echo "No recoded data";
```

```
    }
```

```
?>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<h2>Signup Form</h2>
```

```
<form action="" method="POST">
```

```
<fieldset>
```

```
<legend>Personal information:</legend>
```

```
First name:<br>
```

```
<input type="text" name="firstname">
```

```
<br>
Last name:<br>
<input type="text" name="lastname">
<br>
Email:<br>
<input type="email" name="email">
<br>
Password:<br>
<input type="password" name="password">
<br>
Gender:<br>
<input type="radio" name="gender" value="Male">Male
<input type="radio" name="gender" value="Female">Female
<br><br>
<input type="submit" name="submit" value="submit">
</fieldset>
</form>
</body>
</html>
```

This page displays a signup form that stores the details entered on the page into the table named 'users'.

localhost / 127.0.0.1 / mydb / X • localhost/demo/create.php X +

localhost/demo/create.php

## Signup Form

Personal information:

First name:  
Macx

Last name:  
Simplelearnb

Email:  
macx@simplelearnb.com

Password:  
•••••

Gender:  
☒ Male ☐ Female

### 3.How to read record or View Record?

The second operation, just as the name suggests, 'Read' is used to display or read the data that is already available in the database.

To perform the operation, you need to create a page that displays the records from the table 'users'.

Now, name the page as view.php

```
<?php
include "config.php";
$sql = "SELECT * FROM users";
$result = $conn->query($sql);
?>
<!DOCTYPE html>
<html>
<head>
    <title>View Page</title>
</head>
<body>
    <div class="container">
        <h2>users</h2>
```

```

<table class="table">
  <thead>
    <tr>
      <th>ID</th>
      <th>First Name</th>
      <th>Last Name</th>
      <th>Email</th>
      <th>Gender</th>
      <th>Action</th>
    </tr>
  </thead>
  <tbody>
    <? php
      if ($result->num_rows > 0) {
        while ($row = $result->fetch_assoc ()) {
          ?>
            <tr>
              <td><? php echo $row['id']; ?></td>
              <td><? php echo $row['firstname']; ?></td>
              <td><? php echo $row['lastname']; ?></td>
              <td><? php echo $row['email'];?></td>
              <td><? php echo $row['gender'];?></td>
              <td><a class="btn btn-info" href="update.php?id=<?php echo $row['id'];
?>">Edit</a>&nbsp;<a class="btn btn-danger" href="delete.php?id=<?php echo $row['id'];
?>">Delete</a></td>
            </tr>
          <?php    }
        }
      ?>

```

```

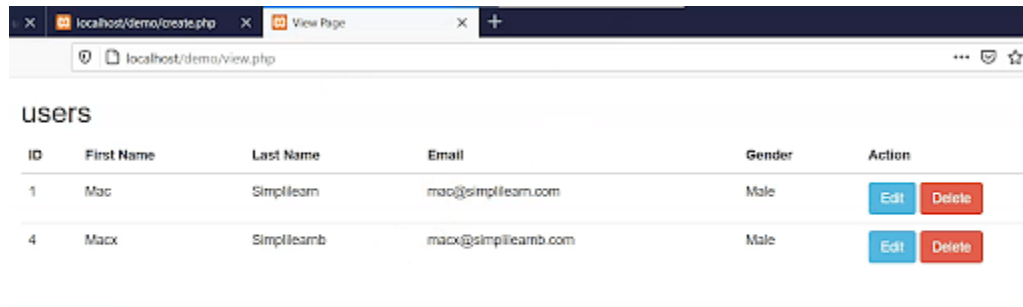
        </tbody>
    </table>

    </div>

</body>

</html>

```



ID	First Name	Last Name	Email	Gender	Action
1	Mac	Simplilearn	mac@simplilearn.com	Male	<button>Edit</button> <button>Delete</button>
4	Macx	Simplilearnb	macx@simplilearnb.com	Male	<button>Edit</button> <button>Delete</button>

### 3) How to update records?

The third operation i.e, 'update' is used to change or modify the already existing data present in the database.

To do this, you need to create another page to update the details in the database. Here, name the page as update.php

```

<?php

include "config.php";

if (isset($_POST['update'])) {

    $firstname = $_POST['firstname'];

    $user_id = $_POST['user_id'];

    $lastname = $_POST['lastname'];

    $email = $_POST['email'];

    $password = $_POST['password'];

    $gender = $_POST['gender'];

    $sql = "UPDATE `users` SET
`firstname`='<strong>$firstname</strong>',`lastname`='<strong>$lastname</strong>',`email`='<strong>$email</strong>',`password`='<strong>$password</strong>',`gender`='<strong>$gender</strong>' WHERE `id`='<strong>$user_id</strong>'";

    $result = $conn->query($sql);

```

```

    if ($result == TRUE) {
        echo "Record updated successfully.";
    }else{
        echo "Error:" . $sql . "<br>" . $conn->error;
    }
}

if (isset($_GET['id'])) {
    $user_id = $_GET['id'];
    $sql = "SELECT * FROM `users` WHERE `id`='{$user_id}'";
    $result = $conn->query($sql);
    if ($result->num_rows > 0) {
        while ($row = $result->fetch_assoc()) {
            $first_name = $row['firstname'];
            $lastname = $row['lastname'];
            $email = $row['email'];
            $password = $row['password'];
            $gender = $row['gender'];
            $id = $row['id'];
        }
    }
}

?>

<h2>User Update Form</h2>

<form action="" method="post">

    <fieldset>

        <legend>Personal information:</legend>

        First name:<br>

        <input type="text" name="firstname" value="<?php echo $first_name; ?>">

        <input type="hidden" name="user_id" value="<?php echo $id; ?>">

        <br>

        Last name:<br>

```

```

<input type="text" name="lastname" value="<?php echo $lastname; ?>">
<br>
Email:<br>
<input type="email" name="email" value="<?php echo $email; ?>">
<br>
Password:<br>
<input type="password" name="password" value="<?php echo $password; ?>">
<br>
Gender:<br>
<input type="radio" name="gender" value="Male" <?php if($gender == 'Male'){ echo "checked";}
?> >Male
<input type="radio" name="gender" value="Female" <?php if($gender == 'Female'){ echo
"checked";} ?>>Female
<br><br>
<input type="submit" value="Update" name="update">
</fieldset>
</form>
</body>
</html>
<?php
} else{
    header('Location: view.php');
}
}
?>

```

In the update form, we need to select the user id which we want to update. You can notice that the user id being updated is visible in the URL of the update page in the picture below.



**User Update Form**

Personal information:

First name:  
Mace

Last name:  
xxxxxx

Email:  
abc@xyz.com

Password:  
\*\*\*\*\*

Gender:  
☒ Male 
 ☐ Female

You can view the updated details by opening the view.php webpage.

**Users**

ID	First Name	Last Name	Email	Gender	Action
1	Mace	xxxxxx	abc@xyz.com	Male	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
4	Mace	Simplilearn	mace@simplilearn.com	Male	<input type="button" value="Edit"/> <input type="button" value="Delete"/>

#### 4) how to delete records

The last operation of CRUD is Delete and just as the name suggests, it is used to delete an existing entry or table.

To perform this operation, you must create a page that would let you choose the data entry that you want to delete from the database.

Now, name the file delete. Php

```
<? php
```

```
include "config.php";
```

```
if (isset($_GET['id'])) {
```

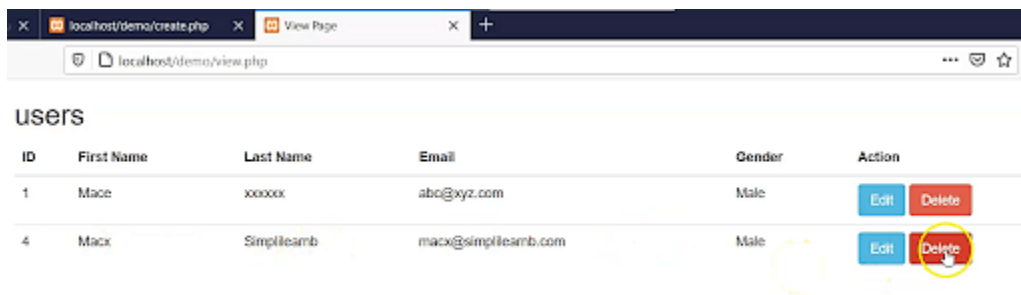
```
    $user_id = $_GET['id'];
```

```
    $sql = "DELETE FROM `users` WHERE `id`='{$user_id}'";
```

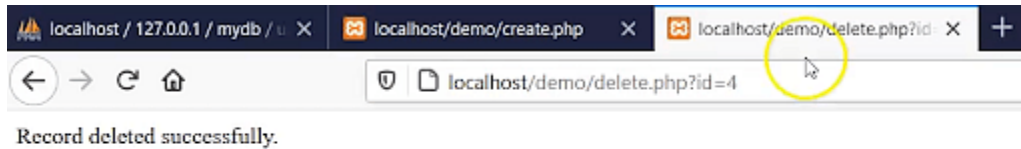
```

$result = $conn->query($sql);
if ($result == TRUE) {
    echo "Record deleted successfully.";
} else {
    echo "Error:". $sql. "<br>" . $conn->error;
}
}
?>

```



ID	First Name	Last Name	Email	Gender	Action
1	Mace	xxxxxx	abc@xyz.com	Male	<a href="#">Edit</a> <a href="#">Delete</a>
4	Macx	Simpileamb	macx@simpileamb.com	Male	<a href="#">Edit</a> <a href="#">Delete</a>



Record deleted successfully.