

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Title: PHP – CRUD Operations

WEB PROGRAMMING LAB
CSE 302



GREEN UNIVERSITY OF BANGLADESH

1 Objective(s)

• To be familiar with CRUD (create, read, update, and delete) Operations using PHP.

2 Problem analysis

CRUD Operations are typically performed on databases, hence, in this PHP CRUD Operations tutorial, you will implement CRUD techniques on MySQL 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

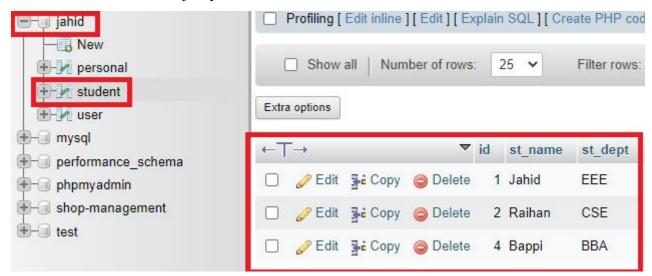
R = Read

U = Update

D = Delete

3 CRUD Operations in PHP

3.1 PHP Create a MySQL Database



3.2 PHP Connect to MySQL

```
//connect.php
1
2
3
   <?php
   $username = "root";
4
   $password = "";
5
   $database = "jahid";
6
7
8
   // Create connection
   $mysqli = new mysqli("localhost", $username, $password, $database);
9
10
   // Check connection
11
12
   if ($mysqli->connect_error) {
     die("Connection failed: " . $mysqli->connect_error);
13
14
   echo "Connected successfully";
15
16
   ?>
```

3.3 PHP MySQL Insert Data

```
1
   //data_insert.php
2
3
   <?php
    session_start();
4
5
   include_once('connection.php');
6
7
8
9
    <form action="" method="post">
10
         <div> Student Name: <input type="text" name="st_name" value="" /> </br>
                Department: <input type="text" name="st_dept" value="" /></br>
11
         <input type="submit" name="submit" value="Insert" /></div>
12
13
   </form>
14
15
16
   <?php
   if(isset($_POST['submit']))
17
18
     if(!empty ($_POST['st_name']) && !empty ($_POST['st_dept'])){
19
20
       $name= $_POST['st_name'];
21
       $Dept= $_POST['st_dept'];
22
     $sql = "INSERT INTO student(st_name, st_dept) VALUES('$name','$Dept')";
23
24
     $run =mysqli_multi_query($mysqli,$sql) or die(mysqli_query());
25
26
     if ($run) {
       echo "<h1>Submitted Successfully..</h1>";
27
28
29
       else{
30
         echo "<h1> Not Submitted </h1>";
31
32
33
       echo "<h2> All Fields are required </h2>";
34
35
36
```

37

```
<form action="" method="post">
                   <div> Student Name: <input type="text" name="st_name" value="" /> </br>
    Department: <input type="text" name="st_dept" value="" /></br></pr>
                   <input type="submit" name="submit" value="Insert" /></div>
      </form>
      <?php
      if(isset($_POST['submit']))
          if(!empty ($_POST['st_name']) && !empty ($_POST['st_dept'])){
               $name= $ POST['st name'];
               $Dept= $_POST['st_dept'];
42
          $sql = "INSERT INTO student(st_name, st_dept) VALUES('$name','$Dept')";
          $run =mysqli_multi_query($mysqli,$sql) or die(mysqli_query());
          if($run){
              echo "<h1>Submitted Successfully..</h1>";
               else{
                   echo "<h1> Not Submitted </h1>";
          }
               echo "<h2> All Fields are required </h2>";
          }
      ?>
```

```
1
  //data_insert.php
2
3
  $sql = "SELECT id, st_name, st_dept FROM student";
4
  echo '
5
6
       ID</font> 
7
8
           Student Name</font> 
9
           Student Dept.</font> 
       <font color="green">Edit</font>
10
           <font color="Red">Delete</font>
11
12
       /;
13
14
  if ($result = $mysqli->query($sql)) {
     while ($row = $result->fetch_assoc()) {
15
         SID = Srow["id"];
16
17
         $Name = $row["st_name"];
         $Dept = $row["st_dept"];
18
19
         echo '
20
21
                 '.$ID.'
22
                 '.$Name.'
23
                 '.$Dept.'
24
```

```
<button class="btn btn-primary"> <a href="single_edit.php?"</pre>
25
                        updateid='.$ID.'" >Update</a></button>
26
             27
                     <button class="btn btn-primary"> <a href="single_delete.php?"</pre>
28
                        deleteid='.$ID.'">Delete</a></button>
             29
                 ';
30
31
       $result->free();
32
33
   $mysqli ->close();
34
35
```

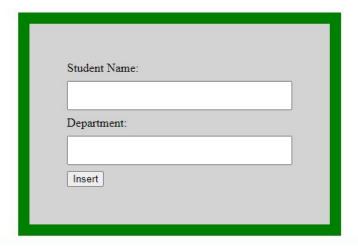
```
<?php
   $sql = "SELECT id, st_name, st_dept FROM student";
echo '
             ID</font> 
              Student Name</font> 
              Student Dept.</font> 
             font color="green">Edit</font>
<font color="Red">Delete</font>

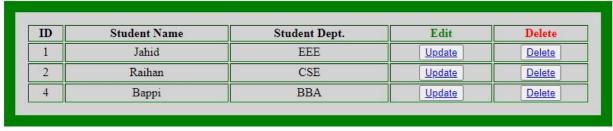
       ($result = $mysqli->query($sql)) {
          echo '
                    '.$ID.'
'.$ID.'
'
'
'

82
83
84
85
86
                     <button class="btn btn-primary"> <a href="single_edit.php?updateid='.$ID." >Update</a></button>
                     <button class="btn btn-primary"> <a href="single_delete.php?deleteid='.$ID.'">Delete</a></button>
                 ';
        $result->free();
    $mysqli ->close();
```

4 Sample Input/Output (Compilation, Debugging & Testing)

Output:





5 Discussion & Conclusion

Based on the focused objective(s) to understand the PHP, the additional lab exercise made me more confident in the fulfillment of the objectives(s).

- 6 Lab Task (Please implement yourself and show the output to the instructor)
- 7 Lab Exercise (Submit as a report)
 - Edit Operation using PHP.

```
//single_edit.php.
1
2
3
   <?php
   include_once('connection.php');
4
5
   ?>
6
7
   <?php
       $id= $_GET['updateid'];
8
9
       $sql= "SELECT * FROM student WHERE id=$id";
10
       $result=mysqli_query($mysqli,$sql);
       $row = mysqli_fetch_assoc($result);
11
12
       $st_name= $row['st_name'];
13
       $st_dept= $row['st_dept'];
14
15
        if(isset($_POST['edit'])){
16
         $st_name= $_POST['st_name'];
17
18
         $st_dept= $_POST['st_dept'];
19
```

```
$sq1 = "UPDATE student SET id=$id, st_name='$st_name', st_dept='
20
             $st_dept' where id=$id ";
21
         $run =mysqli_query($mysqli,$sql) or die(mysqli_query());
22
               if($run){
23
           echo "<h1>Data Edited</h1>";
           header("location:home.php");
24
25
            }
26
       else{
27
         echo "<h1> Data not Edited </h1>";
28
         }
29
30
        }
31
32
   ?>
33
       <form action="#" method="post">
34
           ID: <input type="hidden" name="id"/> </br>
35
36
           Student Name: <input type="text" name="st_name" value=<?php echo
               $st_name;?> /> </br>
           Department: <input type="text" name="st_dept" value=<?php echo
37
               $st_dept;?>
                             /></br>
38
           <input type="submit" name="edit" value="Updated Data" />
39
       </form>
```

• Delete Operation using PHP.

```
1
2
   //single_delete.php
3
4
   <?php
5
   include_once('connection.php');
6
7
8
   <?php
   if (isset ($_GET['deleteid']))
9
10
11
       $id= $_GET['deleteid'];
12
13
     $sql = "DELETE FROM student WHERE id='$id'";
     $run =mysqli_query($mysqli,$sql) or die(mysqli_query());
14
     if($run){
15
16
       echo "<h1>Data Deleted</h1>";
17
       header("location:home.php");
18
     }
19
       else{
         echo "<h1> Data not Deleted </h1>";
20
21
22
23
24
   $mysqli ->close();
25
```

8 Policy

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