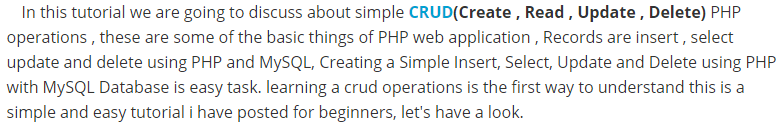
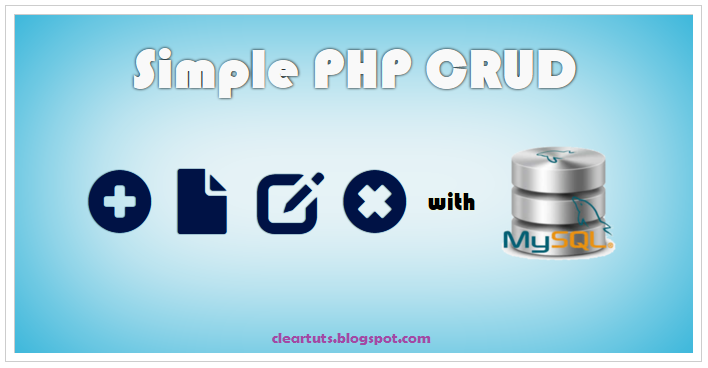
**MODULE: WEB APPLICATION DEVELOPMENT**

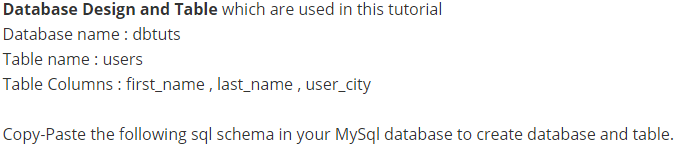
**LU 3: PERFORM PHP MYSQL DATABASE INTERACTION INTERACTION**

**LO 3.4: IMPLEMENT DATABASE OPERATION CRUD**









CREATE DATABASE `dbtuts` ;

CREATE TABLE `dbtuts`.`users` (

`user\_id` INT( 10 ) NOT NULL AUTO\_INCREMENT PRIMARY KEY ,

`first\_name` VARCHAR( 25 ) NOT NULL ,

`last\_name` VARCHAR( 25 ) NOT NULL ,

`user\_city` VARCHAR( 45 ) NOT NULL

) ENGINE = InnoDB;

Database Configuration :   
**dbconfig.php** 

<?php

$host = "localhost";

$user = "root";

$password = "";

$datbase = "dbtuts";

mysql\_connect($host,$user,$password);

mysql\_select\_db($datbase);

?>

Create : Insert New Records

For providing user interface for the database insert, we should create a form, containing all the fields the users table has, except user\_id which is auto generated numeric field. And, HTML code of ADD form will be as follows.  
**add\_data.php** 

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">

<head>

<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

<title>CRUD Operations With PHP and MySql - By Cleartuts</title>

<link rel="stylesheet" href="style.css" type="text/css" />

</head>

<body>

<center>

<div id="header">

<div id="content">

    <label>CRUD Operations With PHP and MySql - By Cleartuts</label>

    </div>

</div>

<div id="body">

<div id="content">

    <form method="post">

    <table align="center">

    <tr>

    <td align="center"><a href="index.php">back to main page</a></td>

    </tr>

    <tr>

    <td><input type="text" name="first\_name" placeholder="First Name" required /></td>

    </tr>

    <tr>

    <td><input type="text" name="last\_name" placeholder="Last Name" required /></td>

    </tr>

    <tr>

    <td><input type="text" name="city\_name" placeholder="City" required /></td>

    </tr>

    <tr>

    <td><button type="submit" name="btn-save"><strong>SAVE</strong></button></td>

    </tr>

    </table>

    </form>

    </div>

</div>

</center>

</body>

On the top of the html tag we need to put PHP code that handle database connection and insert new records into to the user table , So the code is as follow :   
put the following php insert code just above starting tag

<?php

include\_once 'dbconfig.php';

if(isset($\_POST['btn-save']))

{

// variables for input data

$first\_name = $\_POST['first\_name'];

$last\_name = $\_POST['last\_name'];

$city\_name = $\_POST['city\_name'];

// variables for input data

// sql query for inserting data into database

$sql\_query = "INSERT INTO users(first\_name,last\_name,user\_city) VALUES('$first\_name','$last\_name','$city\_name')";

mysql\_query($sql\_query);

// sql query for inserting data into database

}

?>

above html form will look like :

Read : Retrieveng Records From Table

After data insert we need to retrieve all the records from users table :  
**Retrieveng Records From users table**  
following is the php code for selecting records from table.

$sql\_query="SELECT \* FROM users";

$result\_set=mysql\_query($sql\_query);

Using the following while() loop we can fetch all the records from users table. For example

<?php

$sql\_query="SELECT \* FROM users";

$result\_set=mysql\_query($sql\_query);

while($row = mysql\_fetch\_array($result))

{

    ?>

    <!--Add HTML code here to display records.-->

    <?php

}

?>

After that, list of database records will be displayed to the browser, as shown below. And, this list contains icons to trigger update and delete operations for each record.  
**index.php** 

<?php

include\_once 'dbconfig.php';

?>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">

<head>

<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

<title>CRUD Operations With PHP and MySql - By Cleartuts</title>

<link rel="stylesheet" href="style.css" type="text/css" />

</head>

<body>

<center>

<div id="body">

<div id="content">

    <table align="center">

    <tr>

    <th colspan="5"><a href="add\_data.php">add data here.</a></th>

    </tr>

    <th>First Name</th>

    <th>Last Name</th>

    <th>City Name</th>

    <th colspan="2">Operations</th>

    </tr>

    <?php

$sql\_query="SELECT \* FROM users";

$result\_set=mysql\_query($sql\_query);

while($row=mysql\_fetch\_row($result\_set))

{

?>

        <tr>

        <td><?php echo $row[1]; ?></td>

        <td><?php echo $row[2]; ?></td>

        <td><?php echo $row[3]; ?></td>

<td align="center"><a href="javascript:edt\_id('<?php echo $row[0]; ?>')"><img src="b\_edit.png" align="EDIT" /></a></td>

        <td align="center"><a href="javascript:delete\_id('<?php echo $row[0]; ?>')"><img src="b\_drop.png" align="DELETE" /></a></td>

        </tr>

        <?php

}

?>

    </table>

    </div>

</div>

</center>

</body>

</html>

**Output :**

Update : Update MySQL Records.

to complete this operation with each record we can use edit icon that displayed with each record as shown above screenshot on clicking this icon for the specified row the page will jump to the **edit\_data.php** with the specified row and details which are to be edited are filled up in the below form , and it will look like.

For that we need to fetch the selected row from users table by using **SELECT** Query and the QueryString which are set in the **edit\_data.php** url with edit\_id=value.

if(isset($\_GET['edit\_id']))

{

$sql\_query="SELECT \* FROM users WHERE user\_id=".$\_GET['edit\_id'];

$result\_set=mysql\_query($sql\_query);

$fetched\_row=mysql\_fetch\_array($result\_set);

}

after selecting data we need to execute [**UPDATE**](http://cleartuts.blogspot.in/2014/12/php-update-data-of-mysql.html) Query as follow

if(isset($\_POST['btn-update']))

{

// variables for input data

$first\_name = $\_POST['first\_name'];

$last\_name = $\_POST['last\_name'];

$city\_name = $\_POST['city\_name'];

// variables for input data

// sql query for update data into database

$sql\_query = "UPDATE users SET first\_name='$first\_name',last\_name='$last\_name',user\_city='$city\_name' WHERE user\_id=".$\_GET['edit\_id'];

mysql\_query($sql\_query);

// sql query for update data into database

}

**edit\_data.php** 

<?php

include\_once 'dbconfig.php';

if(isset($\_GET['edit\_id']))

{

$sql\_query="SELECT \* FROM users WHERE user\_id=".$\_GET['edit\_id'];

$result\_set=mysql\_query($sql\_query);

$fetched\_row=mysql\_fetch\_array($result\_set);

}

if(isset($\_POST['btn-update']))

{

// variables for input data

$first\_name = $\_POST['first\_name'];

$last\_name = $\_POST['last\_name'];

$city\_name = $\_POST['city\_name'];

// variables for input data

// sql query for update data into database

$sql\_query = "UPDATE users SET first\_name='$first\_name',last\_name='$last\_name',user\_city='$city\_name' WHERE user\_id=".$\_GET['edit\_id'];

        mysql\_query($sql\_query));

// sql query for update data into database

}

?>

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

<title>CRUD Operations With PHP and MySql - By Cleartuts</title>

<link rel="stylesheet" href="style.css" type="text/css" />

</head>

<body>

<center>

<div id="body">

<div id="content">

    <form method="post"><

    <table align="center">

    <tr>

    <td><input type="text" name="first\_name" placeholder="First Name" value="<?php echo $fetched\_row['first\_name']; ?>" required /></td>

    </tr>

    <tr>

    <td><input type="text" name="last\_name" placeholder="Last Name" value="<?php echo $fetched\_row['last\_name']; ?>" required /></td>

    </tr>

    <tr>

    <td><input type="text" name="city\_name" placeholder="City" value="<?php echo $fetched\_row['user\_city']; ?>" required /></td>

    </tr>

    <tr>

    <td>

    <button type="submit" name="btn-update"><strong>UPDATE</strong></button>

    </td>

    </tr>

    </table>

    </form>

    </div>

</div>

</center>

</body>

</html>

Delete : Delete Records From MySQL Table.

By clicking on delete icon of any specified user record, the users id will set to the URL QueryString of the page and the QueryString **index.php?delete\_id=any\_value** if set the Sql Query **DELETE** will be executed by **if(isset($\_GET['delete\_id']))** function , and delete statement is as follow : 

if(isset($\_GET['delete\_id']))

{

$sql\_query="DELETE FROM users WHERE user\_id=".$\_GET['delete\_id'];

mysql\_query($sql\_query);

header("Location: $\_SERVER[PHP\_SELF]");

}

put the above delete php code in **index.php** file above data insert code .   
now there is CRUD operations are completed.  
thats' it

*Complete CRUD Script*

**dbconfig.php** 

<?php

$host = "localhost";

$user = "root";

$password = "";

$datbase = "dbtuts";

mysql\_connect($host,$user,$password);

mysql\_select\_db($datbase);

?>

**index.php** 

<?php

include\_once 'dbconfig.php';

// delete condition

if(isset($\_GET['delete\_id']))

{

$sql\_query="DELETE FROM users WHERE user\_id=".$\_GET['delete\_id'];

mysql\_query($sql\_query);

header("Location: $\_SERVER[PHP\_SELF]");

}

// delete condition

?>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">

<head>

<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

<title>CRUD Operations With PHP and MySql - By Cleartuts</title>

<link rel="stylesheet" href="style.css" type="text/css" />

<script type="text/javascript">

function edt\_id(id)

{

if(confirm('Sure to edit ?'))

{

window.location.href='edit\_data.php?edit\_id='+id;

}

}

function delete\_id(id)

{

if(confirm('Sure to Delete ?'))

{

window.location.href='index.php?delete\_id='+id;

}

}

</script>

</head>

<body>

<center>

<div id="header">

<div id="content">

    <label>CRUD Operations With PHP and MySql - <a href="http://cleartuts.blogspot.com" target="\_blank">By Cleartuts</a></label>

    </div>

</div>

<div id="body">

<div id="content">

    <table align="center">

    <tr>

    <th colspan="5"><a href="add\_data.php">add data here.</a></th>

    </tr>

    <th>First Name</th>

    <th>Last Name</th>

    <th>City Name</th>

    <th colspan="2">Operations</th>

    </tr>

    <?php

$sql\_query="SELECT \* FROM users";

$result\_set=mysql\_query($sql\_query);

while($row=mysql\_fetch\_row($result\_set))

{

?>

        <tr>

        <td><?php echo $row[1]; ?></td>

        <td><?php echo $row[2]; ?></td>

        <td><?php echo $row[3]; ?></td>

<td align="center"><a href="javascript:edt\_id('<?php echo $row[0]; ?>')"><img src="b\_edit.png" align="EDIT" /></a></td>

        <td align="center"><a href="javascript:delete\_id('<?php echo $row[0]; ?>')"><img src="b\_drop.png" align="DELETE" /></a></td>

        </tr>

        <?php

}

?>

    </table>

    </div>

</div>

</center>

</body>

</html>

**add\_data.php** 

<?php

include\_once 'dbconfig.php';

if(isset($\_POST['btn-save']))

{

// variables for input data

$first\_name = $\_POST['first\_name'];

$last\_name = $\_POST['last\_name'];

$city\_name = $\_POST['city\_name'];

// variables for input data

// sql query for inserting data into database

$sql\_query = "INSERT INTO users(first\_name,last\_name,user\_city) VALUES('$first\_name','$last\_name','$city\_name')";

// sql query for inserting data into database

// sql query execution function

if(mysql\_query($sql\_query))

{

?>

<script type="text/javascript">

alert('Data Are Inserted Successfully ');

window.location.href='index.php';

</script>

<?php

}

else

{

?>

<script type="text/javascript">

alert('error occured while inserting your data');

</script>

<?php

}

// sql query execution function

}

?>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">

<head>

<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

<title>CRUD Operations With PHP and MySql - By Cleartuts</title>

<link rel="stylesheet" href="style.css" type="text/css" />

</head>

<body>

<center>

<div id="header">

<div id="content">

    <label>CRUD Operations With PHP and MySql - By Cleartuts</label>

    </div>

</div>

<div id="body">

<div id="content">

    <form method="post">

    <table align="center">

    <tr>

    <td align="center"><a href="index.php">back to main page</a></td>

    </tr>

    <tr>

    <td><input type="text" name="first\_name" placeholder="First Name" required /></td>

    </tr>

    <tr>

    <td><input type="text" name="last\_name" placeholder="Last Name" required /></td>

    </tr>

    <tr>

    <td><input type="text" name="city\_name" placeholder="City" required /></td>

    </tr>

    <tr>

    <td><button type="submit" name="btn-save"><strong>SAVE</strong></button></td>

    </tr>

    </table>

    </form>

    </div>

</div>

</center>

</body>

</html>

**edit\_data.php** 

<?php

include\_once 'dbconfig.php';

if(isset($\_GET['edit\_id']))

{

$sql\_query="SELECT \* FROM users WHERE user\_id=".$\_GET['edit\_id'];

$result\_set=mysql\_query($sql\_query);

$fetched\_row=mysql\_fetch\_array($result\_set);

}

if(isset($\_POST['btn-update']))

{

// variables for input data

$first\_name = $\_POST['first\_name'];

$last\_name = $\_POST['last\_name'];

$city\_name = $\_POST['city\_name'];

// variables for input data

// sql query for update data into database

$sql\_query = "UPDATE users SET first\_name='$first\_name',last\_name='$last\_name',user\_city='$city\_name' WHERE user\_id=".$\_GET['edit\_id'];

// sql query for update data into database

// sql query execution function

if(mysql\_query($sql\_query))

{

?>

<script type="text/javascript">

alert('Data Are Updated Successfully');

window.location.href='index.php';

</script>

<?php

}

else

{

?>

<script type="text/javascript">

alert('error occured while updating data');

</script>

<?php

}

// sql query execution function

}

if(isset($\_POST['btn-cancel']))

{

header("Location: index.php");

}

?>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">

<head>

<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

<title>CRUD Operations With PHP and MySql - By Cleartuts</title>

<link rel="stylesheet" href="style.css" type="text/css" />

</head>

<body>

<center>

<div id="header">

<div id="content">

    <label>CRUD Operations With PHP and MySql - By Cleartuts</label>

    </div>

</div>

<div id="body">

<div id="content">

    <form method="post">

    <table align="center">

    <tr>

    <td><input type="text" name="first\_name" placeholder="First Name" value="<?php echo $fetched\_row['first\_name']; ?>" required /></td>

    </tr>

    <tr>

    <td><input type="text" name="last\_name" placeholder="Last Name" value="<?php echo $fetched\_row['last\_name']; ?>" required /></td>

    </tr>

    <tr>

    <td><input type="text" name="city\_name" placeholder="City" value="<?php echo $fetched\_row['user\_city']; ?>" required /></td>

    </tr>

    <tr>

    <td>

    <button type="submit" name="btn-update"><strong>UPDATE</strong></button>

    <button type="submit" name="btn-cancel"><strong>Cancel</strong></button>

    </td>

    </tr>

    </table>

    </form>

    </div>

</div>

</center>

</body>

</html>

**style.css** 

@charset "utf-8";

/\* CSS Document \*/

\*

{

margin:0;

padding:0;

}

body

{

background:#f9f9f9;

font-family:"Courier New", Courier, monospace;

}

#header

{

width:100%;

height:50px;

background:#00a2d1;

color:#f9f9f9;

font-family:"Lucida Sans Unicode", "Lucida Grande", sans-serif;

font-size:35px;

text-align:center;

}

#header a

{

color:#fff;

text-decoration:blink;

}

#body

{

margin-top:50px;

}

table

{

width:80%;

font-family:Tahoma, Geneva, sans-serif;

font-weight:bolder;

color:#999;

margin-bottom:80px;

}

table a

{

text-decoration:none;

color:#00a2d1;

}

table,td,th

{

border-collapse:collapse;

border:solid #d0d0d0 1px;

padding:20px;

}

table td input

{

width:97%;

height:35px;

border:dashed #00a2d1 1px;

padding-left:15px;

font-family:Verdana, Geneva, sans-serif;

box-shadow:0px 0px 0px rgba(1,0,0,0.2);

outline:none;

}

table td input:focus

{

box-shadow:inset 1px 1px 1px rgba(1,0,0,0.2);

outline:none;

}

table td button

{

border:solid #f9f9f9 0px;

box-shadow:1px 1px 1px rgba(1,0,0,0.2);

outline:none;

background:#00a2d1;

padding:9px 15px 9px 15px;

color:#f9f9f9;

font-family:Arial, Helvetica, sans-serif;

font-weight:bolder;

border-radius:3px;

width:49.5%;

}

table td button:active

{

position:relative;

top:1px;

}