

# **University of Computer Studies**



# CHAPTER 12 MYSQL DATABASE WITH PHP (PART - III)

Department of Information Technology Supporting and Maintenance



# **Objectives**



- To know how to use phpMyAdmin
- To know how to communicate database in PHP
- To know the steps in connecting with the database
- To know different types of MySQLi functions when connection database from PHP scripts.



### **Inserting Data to Table**



```
<?php
                                         // Check connection
$servername = "localhost":
                                         if (!$conn) {
$username = "your_username";
                                           die("Connection failed: ".
$password = "your password";
                                         mysqli_connect_error());
$dbname = "your_database";
// Create connection
                                         // Sample data for insertion
$conn = mysqli_connect($servername,
                                         $name = "John Doe";
$username, $password, $dbname);
                                         $email = "john.doe@example.com";
```



# Inserting Data to Table (Cont'd)



```
// SQL query for insertion
                                             else {
$sql = "INSERT INTO your table
                                               echo "Error: " . $sql . "<br>" .
(name, email) VALUES ('$name',
                                             mysqli_error($conn);
'$email')":
// Execute the query
                                             // Close the connection
if (mysqli_query($conn, $sql)) {
                                             mysqli close($conn);
  echo "New record inserted
                                             ?>
successfully";
```

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#### **Retrieving Data from Tables**



- mysqli\_num\_rows () is used to get the number of rows in a result set returned by a SELECT query.
- This function takes the result set as its argument and returns the number of rows.

mysqli\_num\_rows(query\_result);

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### Display Data from Table



```
// Create connection
$conn = mysqli connect($servername,
$username, $password, $dbname);
// Check connection
if (!$conn) { die("Connection failed: "
. mysqli_connect_error());}
// SQL query to select all records from a
table
$sql = "SELECT * FROM newtb";
// Execute the query
$result = mysqli_query($conn, $sql);
```

```
// Check if the query was successful
if ($result) {
// Check if there are any records
if (mysqli_num_rows($result) > 0) {
// Display records
echo "";
echo "ID
           Name
           Email":
```



# Display Data from Table (Cont'd)



```
while ($row =
mysqli_fetch_assoc($result)) {
      echo "";
      echo "" . $row["id"] .
"":
     echo "" . $row["name"] .
"":
      echo "" . $row["email"] .
"":
      echo ""; }
    echo "";
  } else {
         echo "No records found";
```

```
// Free the result set
  mysqli_free_result($result);
} else {
  // If the query fails, handle the error
  echo "Error: " . mysqli_error($conn);
// Close the connection
mysqli_close($conn);
?>
```



# Manipulating the Results



- The results come out as an array of associative arrays.
- The keys of each associative array are the fields in the database.
- The values are the contents of the database corresponding to those fields for a record.

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# **Exacting the Data (Cont'd)**



```
<?php
      $con = mysqli_connect("localhost","root","");
      if (!$con){
            die('Could not connect: ' . mysqli_error( ));
      mysqli_select_db($con,"my_db1");
      $query="select * from Persons"; //retrieving all records
      $ret=mysqli_query($con,$query);
      $num_results = mysqli_num_rows($ret);
      echo "There were $num_results results returned from the query.";
```



# **Updating Data**



```
<?php
newAge = 26;
\$userId = 1:
$sql = "UPDATE users SET age=$newAge WHERE id=$userId";
if (mysqli_query($conn, $sql)) {
  echo "Record updated successfully";
} else {
  echo "Error: " . $sql . "<br/>br>" . mysqli_error($conn);
mysqli_close($conn);
```



# **Deleting Data**



```
<?php
$userIdToDelete = 2;
$sql = "DELETE FROM users WHERE id=$userIdToDelete";
if (mysqli_query($conn, $sql)) {
  echo "Record deleted successfully";
} else {
  echo "Error: " . $sql . "<br/>br>" . mysqli_error($conn);
mysqli_close($conn);
?>
```



# University of Computer Studies **Php**



#### Simple User Registration System



### Create Table "users" in registration database Php



you can create it on the MySQL prompt using the following SQL script:

```
CREATE TABLE `users` (
'id' int(11) NOT NULL AUTO INCREMENT PRIMARY KEY,
`username` varchar(100) NOT NULL,
'email' varchar(100) NOT NULL,
`password` varchar(100) NOT NULL ) ENGINE=InnoDB DEFAULT
CHARSET=latin1
```



# login.php



```
<!DOCTYPE html>
<html>
<head>
 <title>Registration system </title>
 <link rel="stylesheet" type="text/css"</pre>
href="style.css">
</head>
<body> <div class="header">
     <h2>Login</h2>
 </div>
```

```
<form method="post" action="login_process.php">
         <div class="input-group">
         <label>Username</label>
         <input type="text" name="username" >
    </div>
    <div class="input-group">
       <label>Password</label>
         <input type="password"
name="password">
    </div>
```



# login.php (Cont'd)



```
<div class="input-group">
         <button type="submit"
class="btn"
name="login_user">Login</button>
    </div>
    >
        Not yet a member? <a
href="register.php">Sign up</a>
    </form>
</body>
</html>
```



# login\_process.php



```
<?php
// Database connection
$host = "localhost";
$username = "root";
$password = "";
$database = "registration";
$conn = mysqli_connect($host,
$username, $password, $database);
if (!$conn) {
  die("Connection failed: ".
mysqli connect error());
```

```
// Login process
if ($ SERVER["REQUEST_METHOD"] ==
"POST") {
   $username = $ POST["username"];
  $password = $ POST["password"];
  // Retrieve user information
  $select_query = "SELECT id, username, password
FROM users WHERE username='$username'":
  $result = mysqli_query($conn, $select_query);
```



# login\_process.php (Cont'd)



```
if (mysqli_num_rows($result) > 0) {
    $row = mysqli_fetch_assoc($result);
    // Verify password
    if ($password== $row["password"])
       echo "Login successful! Welcome,
". $row["username"]. "!";
       header("Location:
http://localhost/MyProgram/welcome.php
");
```

```
else {
       echo "Error: Incorrect password.";
  } else {
     echo "Error: User not found.";
mysqli_close($conn);
?>
```



# register.php



```
<!DOCTYPE html>
<html>
<head>
 <title>Registration system PHP and
MySQL</title>
 <link rel="stylesheet" type="text/css"</pre>
href="style.css">
</head>
<body>
 <div class="header">
    <h2>Register</h2>
```

```
<form method="post"
action="register_process.php">
<div class="input-group">
     <label>Username</label>
     <input type="text" name="username">
    </div>
    <div class="input-group">
     <label>Email</label>
     <input type="email" name="email">
    </div>
```



## register.php (Cont'd)



```
<div class="input-group">
      <label>Password</label>
      <input type="password"</pre>
name="password_1">
    </div>
    <div class="input-group">
      <label>Confirm password</label>
      <input type="password"</pre>
name="password 2">
    </div>
```

```
<div class="input-group">
     <button type="submit" class="btn"
name="reg_user">Register</button>
    </div>
>
        Already a member? <a
href="login.php">Sign in</a>
    </form>
</body>
</html>
```



# register\_process.php



```
<?php
// Database connection
$host = "localhost";
$username = "root";
$password = "";
$database = "registration";
$conn = mysqli_connect($host,
$username, $password, $database);
if (!$conn) {
  die("Connection failed: ".
mysqli_connect_error());
```

```
// Registration process
if ($ SERVER["REQUEST METHOD"] ==
"POST") {
  $username = $ POST["username"];
  $email =$ POST["email"];
  $password = $_POST["password_1"];
  $confirm_password =
$_POST["password_2"];
  // Check if password and confirm_password
match
  if ($password != $confirm_password) {
    die("Error: Passwords do not match.");
                                         20
```



# register\_process.php (Cont'd)



```
<?php
// Database connection
$host = "localhost";
$username = "root";
$password = "";
$database = "registration";
$conn = mysqli_connect($host,
$username, $password, $database);
if (!$conn) {
  die("Connection failed: ".
mysqli_connect_error());
```

```
// Registration process
if ($ SERVER["REOUEST METHOD"] ==
"POST") {
  $username = $ POST["username"];
  $email =$_POST["email"];
  $password = $_POST["password_1"];
  $confirm password =
$_POST["password_2"];
  // Check if password and confirm password
match
  if ($password != $confirm_password) {
    die("Error: Passwords do not match.");
                                       21
```



# register\_process.php (Cont'd)



```
// Check if username already exists
  $check_query = "SELECT id FROM
users WHERE username='$username'";
  $result = mysqli_query($conn,
$check query);
  if (mysqli_num_rows(\$result) > 0) {
    die("Error: Username already
exists.");
```

```
$insert query = "INSERT INTO users (username,
email, password) VALUES ('$username',
'$email', '$password')";
  if (mysqli_query($conn, $insert_query)) {
    echo "Registration successful!";
  } else {
    echo "Error: " . $insert_query . "<br>" .
mysqli_error($conn);
} mysqli_close($conn);
?>
```



#### References



- Beginning PHP 5.3, 1st Edition by Matt Doyle
- PHP 5 for Dummies by Janet Valade
- PHP Refereshment Course from UCSY

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# University of Computer Studies Php



#### THANK YOU

