

Lecture 25

Retrieving data from MySQL using PHP

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Summary of the previous lecture

- **FILES super global variable**
- **File uploading in PHP**
- **Storing reference of uploaded file in database**
- **CONNECTIONS: user registration with file upload**

Outline

- **Retrieving data from MySQL using PHP**
- **CONNECTIONS: login functionality**

1. Retrieving data from MySQL using PHP

- **Connection** with database
- Execute **Select** SQL command
- Make **display** structure
- **Write** data

1.1 Connection with database

```
<?php
```

```
mysql_connect("localhost","root","") or  
die("Error in connection");
```

```
mysql_select_db("testdatabase") or die("Error  
in Selection");
```

```
?>
```

1.2 Selecting data

- **SELECT command in SQL:**

SELECT column-name

FROM table-name

SELECT **user_Name**

FROM **users**

SELECT *

FROM **users**

1.2 Selecting data...

- **Condition selection:**

SELECT column-name

FROM table-name

WHERE condition

SELECT *

FROM users

WHERE user_id>4

1.2 Selecting data...

```
<?php  
include('connection.php');  
$sql = 'select * from users';  
$result = mysql_query($sql);  
?>
```


1.2 Selecting data...

- **Counting rows:**
 - `mysql_num_rows(variable);`

```
<?php
```

```
include('connection.php');
```

```
$sql = 'select * from users';
```

```
$result = mysql_query($sql);
```

```
$users = mysql_num_rows($result);
```

```
echo "There are total ". $users ."users found";
```

```
?>
```

1.3 Display structure

```
<table border='1'>  
<tr>  
<th> User Name</th>  
<th> User Email</th>  
<th> User Password</th>  
<th> User Picture</th>  
</tr>  
<tr>  
<td> &nbsp;</td>  
<td> &nbsp;</td>  
<td> &nbsp;</td>  
<td> &nbsp;</td>  
</tr>  
</table>
```

1.4 Writing data

- **mysql_fetch_array(result-resource);**
 - **mysql_fetch_array(\$result);**

1.4 Writing data...

\$result=

1	Ali	ali@yahoo.com	123	upload/123ali.jpg
2	Umar	umar@yahoo.com	123	upload/123umar.jpg

\$row = mysql_fetch_array(\$result);

	0	1	2	3	4
\$row=	1	Ali	ali@yahoo.com	123	upload/123ali.jpg
	user_Id	user_Name	user_Email	user_Password	user_Picture

echo \$row [1]; echo \$row['user_Name'];

1.4 Writing data...

```
<table border='1'>
```

```
<tr>
```

```
<th> User Name</th>
```

```
<th> User Email</th>
```

```
<th> User Password</th>
```

```
<th> User Picture</th>
```

```
</tr>
```

```
<tr>
```

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

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

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

```
<td> <img src= "<?php echo $row[4]; ?>"> </td>
```

```
</tr>
```

```
</table>
```

User Name	User Email	User Password	User Picture
Ali	ali@yahoo.com	123	

1.4 Writing data...

```
<table border='1'>
```

```
Heading Row
```

```
<?php
```

```
while($rows = mysql_fe
```

```
{
```

```
?>
```

```
<tr>
```

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

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

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

```
<td> <img src= "<?php echo $row[3]; ?>"> </td>
```

```
</tr>
```

```
<?php } ?>
```

```
</table>
```

User Name	User Email	User Password	User Picture
Ali	ali@yahoo.com	123	
Umar	umar@yahoo.c om	123	

1.5 Example

```
1 <html>
2 <head>
3 <title> Retrieving data</title>
4 </head>
5 <body>
```

Starts a
HTML page

```
6 <?php
```

```
7 include('connection.php');
```

Connection to database

```
8 $sql = "select * from users";
```

Select command

```
9 $result = mysql_query($sql);
```

Query executed

```
10 $users= mysql_num_rows($result);
```

```
11 ?>
```

Counting number of
rows

1.5 Example...

```
12 <table border="1" align="center">
13 <tr bgcolor="#CCCC00">
14 <th>User Name</th>
15 <th>User Email</th>
16 <th>User Password</th>
17 <th>User Picture</th>
18 </tr>
```

Heading
row

```
19 <?php
20 while ($rows=mysql_fetch_array($result))
21 {
22 ?>
```

Loop starts

Keeps row

1.5 Example...

```
23 <tr bgcolor="#CCCCCC">
24 <td><?php echo $rows[1]; ?> </td>
25 <td><?php echo $rows[2]; ?> </td>
26 <td><?php echo $rows[3]; ?> </td>
27 <td> </td>
28 </tr>
29 <?php
30 }
31 ?>
32 </table>
33 </body>
34 </html>
```

Displays name

Displays email

Displays password

Displays image

Sets source

Ends loop

Ends table

1.5 Example...

Show : Start row: Number of rows: Headers every rows

Records in user's table

+ Options

		user_Id	user_Name	user_Email	user_Password	user_Picture
<input type="checkbox"/>	Edit Copy Delete	16	umar	umar@yahoo.com	123	uploads/18652umar.jpg

Check All *With selected:* Change Delete Export

localhost/Lecture%2030/view.php

User Name	User Email	User Password	User Picture
umar	umar@yahoo.com	123	

Output from the table

2. CONNECTIONS: User login

- **Form** for user's input
- **Login action** page:
 - **Connection** with database
 - **Retrieve** user's input
 - **Select a record** from user's table with **same** email and password
 - **Count** the number of row in result
 - If **one** row is selected then **fetch** its values and **store** in **session variable**, otherwise **send** an error message on **main page**

2.1 CONNECTIONS: User login form

Connection Home Page! - Google Chrome
localhost/CONNECTIONS/

CONNECTIONS
Get Connected

User Login

Your ID

Your Password

Login

Post method email

Password

User Registration

Your Full Name:

Your Email Address:

Your Password:

Your Picture: No file chosen

Register

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2.2 CONNECTIONS: database connection

<?php

**mysql_connect("localhost","root","") or
die("Error in connection");**

**mysql_select_db("testdatabase") or die("Error
in Selection");**

?>

```
1 <?php
2 session_start();
3 include('connection.php');
```

2.3 CONNECTIONS: Retrieve user's input

```
4 $email      = $_POST['email'];  
5 $password   = $_POST['password'];
```

2.4 CONNECTIONS: Select record

```
6 $sql="select * from users
7     where user_Email='$email' AND
8     user_Password='$password'";
9 $result = mysql_query($sql);
```

2.5 CONNECTIONS: Redirect

```
10 if(mysql_num_rows($result)==1) ← No. of rows selected
11 {
12     $row = mysql_fetch_array($result); ← Fetch user information
13     $_SESSION['name'] = $row[1];
14     $_SESSION['email'] = $row[2];
15     $_SESSION['password'] = $row[3];
16     $_SESSION['picture'] = $row[4]; } Register session variables
17 header("location:userpage.php"); ← redirect
18 }
```

```
19 else
20 header("location:index.php?loginmsg=Invalid
    Username or Password");
21 ?>
```

If user's input is invalid

2.6 CONNECTIONS: user page

The screenshot shows a web browser window with the address bar displaying `localhost/CONNECTIONS/userpage.php`. The page content is as follows:

- Header:** A dark red banner with the text "CONNECTIONS" and "Get Connected" below it.
- User's pic:** A placeholder box for a user profile picture, indicated by a red arrow from the label "User's pic".
- User's information:** A yellow box containing the text "Hassan" and "hassan@yahoo.com", with a red arrow pointing to it from the label "User's information".
- User profile:** A red bracket on the right side of the yellow box groups the "User's pic" and "User's information" sections under the label "User profile".
- actions:** A yellow box containing a list of links: "Send Message", "InBox", "OutBox", and "SignOut", with a red arrow pointing to it from the label "actions".

2.6 CONNECTIONS: user page...

```
1 <?php
2 session_start();
3 ?>
```

```
17 <div id="profilebox">
18 <div class="imgage">
19 
22 </div>
23 <div class="profileinfo">
24 <div> <?php echo $_SESSION[ 'name' ]; ?></div>
25 <div> <?php echo $_SESSION[ 'email' ]; ?></div>
26 </div>
```

Profile div

Image div

User's info

Summary

- **Retrieving data from MySQL using PHP**
- **CONNECTIONS: login page**

References

- **Chapter 30, “Beginning PHP and MySQL”** by W. Jason Gilmore, Apress publisher, 4th edition; 2010, ISBN-13 (electronic): 978-1-4302-3115-8.