

# Web Technologies and Programming Lecture 27

# Retrieving Data, Delete, Update from Database

# Summary of the previous lecture

- Creating database in MySQL using WAMP
- Connecting PHP with MySQL
- Inserting data in database
- CONNECTIONS: user registration
- FILES super global variable
- File uploading in PHP
- Storing reference of uploaded file in database
- User registration in CONNECTIONS web application with file upload

# Outline

- Retrieving data from MySQL using PHP
- **CONNECTIONS:** login functionality
- Deleting records in MySQL using PHP
- Updating records in MySQL using PHP

## 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

- The SELECT statement is used to select data from one or more tables:
- 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

#### 

#### 

 User Name User Email User Password User Picture

#### 

#### 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);



echo \$row [1]; echo \$row['user\_Name'];

#### 1.4 Writing data...

User Name **User Email User Password** Ali ali@yahoo.com 123 User Name User Email User Password User Picture <?php\_echo \$row[1]; ?> <?php\_echo \$row[2]; ?> <?php\_echo \$row[3]; ?> <img src= "<?php echo \$row[4]; ?>"> 

**User Picture** 

#### 1.4 Writing data...

```
User Name
                                User Email
                                              User Password
                                                           User Picture
Heading Row
                     Ali
                                ali@yahoo.com
                                             123
<?php
while($rows = mysql_fe
                     Umar
                                umar@yahoo.c
                                             123
{
                                om
?>
```

#### 

#### 1.5 Example



12 
13 
14 >User Name
15 >User Email
16 >User Email
17 >User Password
17 >User Picture
18

19 <?php Loop starts Keeps row
20 while(\$rows=mysql\_fetch\_array(\$result))
21 {
22 ?>



Show : Start row:	0 Nu	umber of rows: 30	Headers every	100 rows	Records in
+ Options	116	er Id user Name	user Email	User Password	user Picture
←   → □ <i>⊘</i> Edit ≩i Copy	Delete	16 umar	umar@yahoo.com	123	uploads/18652umar.jpg
📩 🔲 Check All	With selec	oted: 🥜 Change	🥥 Delete 🛛 🜉	Export	·

#### ← → C 🗋 localhost/Lecture%2030/view.php

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

#### 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				
← → C □ localhost/CONNECTIONS/				\$
CONNECTIONS —Get Connected				
	User Login		Post method	
	Your ID		— email	
	Your Password	Login	Password	
	User <u>Registration</u>			
	Your Full Name:			
	Your Email Address:			
	Your Password:	Chassa Eila Na fla shasan		
	Your Picture:	Choose rine Into the chosen		
		C all rights recented		
		an ugus reserved		

## 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



# 2.6 CONNECTIONS: user page

Connection User Page	age! - Google Chrome		
← → C 🗋 loc	ocalhost/CONNECTIONS/userpage.php		☆ 〓
User's	CONNECTIONS - Get Connected Hassan hassan@yahoo.com	U	ser
pic	User's info	rmation	rofile
	Send Message InBox OutBox SignOut		
			•

# 2.6 CONNECTIONS: user page...

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



## 3. Deleting record in MySQL using PHP

- Connection with database
- Delete the record

## 3.1 Connection with database

#### <?php

mysql\_connect('localhost','root','') or die("error in connection");

mysql\_select\_db('testdatabase') or die("error
in selection");

?>

#### 3.2 Delete the record

• Delete SQL instruction: DELETE FROM table-name WHERE condition

DELETE FROM users WHERE user\_Id =5 DELETE FROM users WHERE user\_Id >5

#### 3.2 Delete the record...

<?php
include('connection.php');
\$sql="DELETE FROM users
 WHERE user\_Id=5";
mysql\_query(\$sql);
?>

#### **3.3 Example**

- **Display** data from database in a table
- Add actions column
- In each record, add a delete button
- When delete button in clicked, delete that record

← → C 🗋 localhost/lecture%2031/view.php

User Name	User Email	<b>User Password</b>	User Picture	Action	Delete
umar	umar@yahoo.com	123		Delete	

<?php **Connection with database** Select data User Name User Email >User Password User Picture Actions 

```
<?php
while($rows = mysql_fetch_array($result))
{
?>
 <?php echo $row[1]; ?> 
 <?php echo $row[2]; ?> 
<?php_echo $row[3]; ?> 
 <img src= "<?php_echo $row[4]; ?>"> 
<a href="delet.php?id=<?php echo $rows[0];?>">Delete</a>
<?php } ?>
```





12 User Name 13 14 >User Email 15 >User Password **Heading row** 16 >User Picture 17 >Action Loop starts 18 <?php 19 while(\$rows=mysql fetch array(\$result)) 20 21 { 22 ?>





Confirmation before delete:



## 4. Updating records in MySQL using PHP

- Connection with database
- Update the record

#### 4. Updating records in MySQL using PHP...

Update SQL instruction:
 UPDATE table-name
 SET column-names = values
 WHERE condition

UPDATE users SET user\_Name = 'Ali', user\_Email = 'ali@yahoo.com', user\_Password='123' WHERE user\_Id=1

#### 4. Updating records in MySQL using PHP...

#### <?php Include('connection.php'); \$sql ="UPDATE users SET user Name = 'Ali', user Email = 'ali@yahoo.com', user\_Password='123 Where user Id=1"; mysql\_query(\$sql); ?>

#### 4.1 Example

User Name	User Email	User Password	User Picture	Action	]	Selects
Umar	umar@gmail.com	1234		<u>Delete</u> ∣ <u>Upda</u> ≰		update
Saad	saad@gmail.com	123		<u>Delete</u>   <u>Update</u>		

User Name	Umar	
User Email	umar@gmail.com	
User Password	1234	-
Update		

Form with previous values

User Name		Asad Mah	mood				
User Email		asad@gmail.com				Values a	re
User Passwo	User Password 1234					updated	
Update							Updated
							record
User Name	Us	ser Email	User Password	User 1	Picture	Action	
User Name Asad Mahmood	Us asad(	ær Email Øgmail.com	User Password	User I	Picture	Action Delete   Update	

#### View page:

- 28
- 29 <a href="delete.php?id=<?php echo \$rows[0];?>"
  onClick="return confirm('Delete This account?')">
  Delete</a> |
- 30 <a href="update.php?id=<?php echo \$rows[0];?>" >
   Update</a>
  31

Link to update.php, record id is passed with link

- Get id of the record
- Connect to database
- **Retrieve** record from database against the id
- Start form
- Set retrieved values as value of the input fields





23		
24		User Email
25	Email	input type="text" name="email"
26	cillali -	<pre>value="<?php echo \$row[2];?>" &gt;</pre>
27		
28		
29	٢	-
30		User Password
passv	word	<input <="" name="password" th="" type="text"/>
32		<pre>value="<?php echo \$row[3];?>" &gt;</pre>
33		
34	Ĺ	



- Up\_action.php page:
- Retrieve users input
- Connect with database
- Execute update instruction
- Redirect to view page

1	php</th
2	\$id = \$ POST['id'];
3	<pre>\$name = \$POST['name'];</pre> User's input
4	<pre>\$ POST['email'];</pre>
5	<pre>\$ POST['password'];</pre>
6	include ('connection.php'); - Connection to database
7	\$sql="update users
8	set user_Name='\$name', 📄
9	user_Email='\$email',
10	user Password='\$password' Update
11	Where user Id='\$id'";
12	<pre>mysql_query(\$sql);</pre>
13	header("location:viewwithedit.php");
1 /	25

#### **5. Limit Data Selections From a MySQL Database**

- MySQL provides a LIMIT clause that is used to specify the number of records to return.
- The LIMIT clause makes it easy to code multi page results or pagination with SQL, and is very useful on large tables. Returning a large number of records can impact on performance.

#### **5. Limit Data Selections From a MySQL Database**

- Assume we wish to select all records from 1 -30 (inclusive) from a table called "users". The SQL query would then look like this:
- \$sql = "SELECT \* FROM Users LIMIT 30";

• When the SQL query above is run, it will return the first 30 records.

# Summary of MYSQL DATABASE

- Intro to MySQL
- Creating database in MySQL using WAMP
- Connecting PHP with MySQL
- Inserting data in database
- CONNECTIONS: user registration
- FILES super global variable
- File uploading in PHP
- Storing reference of uploaded file in database
- User registration in CONNECTIONS web application with file upload

# Summary

- Retrieving data from MySQL using PHP
- Connection with database
- Execute Select SQL command
  - Make display structure
  - Selecting Command
  - Counting rows
- Write data
- CONNECTIONS: login page
- Deleting record in MySQL using PHP
- Connection with database
  - Delete the record
  - Delete Command

# Summary

- Updating records in MySQL using PHP
- Connection with database
  - Update the record
  - Update Command

• Limit Data Selections

# **THANK YOU**