



# Lab 7

## PHP and

## MySQL Server

# PHP and MySQL connection -

There are functions in PHP to connect to the MySQL Server from PHP page.

- `mysqli_connect($host, $username, $password, $dbname)`

This statement opens the connection with the MySQL Server and returns a reference to query the database server.

Ex – `$host = 'localhost';`

`$user = 'root';`

`$pass = '';`    **\\Nothing**

`$link = mysqli_connect($host, $user, $pass, 'iiitdm');`

# PHP Syntax

- `mysqli_query($query, $resource)`
  - Used to send any MySQL command to the database server. In the case of SELECT queries, a reference to the result set will be returned. If “resource” is not mentioned, then this statement is used to execute the query on the active database.
  - Example 1: `$link = mysqli_connect($host, $user, $pass);`  
`$query = 'CREATE DATABASE DBName';`  
`mysqli_query($query, $link);`
  - Example 2:  
`$query = 'SELECT * FROM CUSTOMER';`  
`$result = mysqli_query($query);`

Here variable `$result` will contain the reference to the result set returned by the query.

# PHP Syntax

- `mysqli_select_db($database, $resource)`
  - Equivalent to the MySQL command USE and sets the active database on which you want to run subsequent queries.
  - Example: `mysqli_select_db('DBname', $link);`
- `mysqli_error($resource)`
  - Shows the error message generated by the previous query.
  - Example: `mysqli_error($link);`

# PHP Syntax

- `mysqli_fetch_array($result)`
  - Return a row of data from the query's result set as an associative array, numeric array or both.
- `mysqli_fetch_assoc($result)`
  - Return a row of data from the query's result set as an associative array.
- `mysqli_close($link)`
  - To close the connection with the MySQL Server.
  - Example: `mysqli_close($link);`

# Example – Table Creation

```
<?php
```

```
$link = mysqli_connect ('localhost', 'root', "", 'dbname') or die  
('Unable to connect the server.');
```

```
$row="CREATE TABLE customer( customer_name VARCHAR(15)  
NOT NULL, customer_street VARCHAR(15), customer_city  
VARCHAR(15), PRIMARY KEY(customer_name))";
```

```
$results = mysqli_query($row);
```

```
if($results == FALSE)
```

```
    echo mysqli_error();
```

```
else
```

```
    echo "Customer table created.";
```

# Example – Table Creation

```
$row = " CREATE TABLE depositor( customer_name  
VARCHAR(15), account_number INTEGER,PRIMARY  
KEY(customer_name, account_number),FOREIGN  
KEY(customer_name) REFERENCES customer(customer_name),  
FOREIGN KEY(account_number) REFERENCES  
account(account_number))";
```

```
$results = mysqli_query($row);
```

```
if($results == FALSE)
```

```
    echo mysqli_error();
```

```
else
```

```
    echo "Depositor table created.";
```

```
?>
```



# Example – Insertion

```
<?php
```

```
$link = mysqli_connect ('localhost', 'root', "", 'iiitdm') or die  
('Unable to connect the server. ');
```

```
$insert = "INSERT INTO customer (customer_name,  
customer_street, customer_city) VALUES  
('amit','sarafa','patna')";
```

```
$results = mysqli_query($insert) or die(mysqli_error());
```

```
echo "Data inserted successfully!";
```

```
?>
```





# Developing a Complete Application

# Now You Need to Develop a Complete Web Application for Banking Enterprise Database

where

- A login page to give access only to authentic users.
- Main page displaying various links to different operations on the tables like:
  - ✓ View Customer Information
  - ✓ Register New Customer
  - ✓ View All Account Details
  - ✓ View All Loan Details
  - ✓ Register/Update Loan
  - ✓ View all Branch Details
  - ✓ Register/Update Branch

Logo  
image

Bank Name (Big Font-use header tags)

Home | About Us | Login

(Use table structure to make menu option)

Banner Image

Scrolling  
News  
(Use Marquee  
Tag)

Some text showing information about bank. (Use paragraph,  
list tags)

Services (Big Font-use header tags)

Saving  
A/C  
(Image)

Fixed  
Deposit  
(Image)

Credit  
Cards  
(Image)

Loan  
(Image)

# Login Page

Logo  
image

Bank Name (Big Font-use header tags)  
[Home](#) | [About Us](#) | [Login](#)  
(Use table structure to make menu option)  
Login  
Username:  (Textfield)  
Password:  (Textfield)  
 (Button)

Start by running `login_check.php` and using `Login_id = ABC` and `Password = 12345`. Make sure these credentials stored in database.

# conn.php

```
<?php
$DB_USERNAME="root";
$DB_PASS="";
$DB_HOSTNAME="localhost";
$DB_NAME="bank_app";
$conn=mysqli_connect($DB_HOSTNAME,$DB_USERNAME,$DB_PASS,$
DB_NAME) or die('DATABASE CONNECTION ERROR');
?>
```

# Login.html

```
.....
<form action="login_check.php" method="post">
.....
<input type="text" name="userid" />
....
<input type="password" name="pass" />
.....
</form>
```

# Login\_check.php

```
<?php
include('conf.php');
$userid=$_POST['userid'];
$pass=$_POST['pass'];

$sql="select * from master_login where userid='$userid' and passwd='$pass' ";
$res=mysqli_query($conn,$sql);
if($result=mysqli_fetch_assoc($res))
{
    $_SESSION['userid']=$result['userid'];
    header('location:main_page.php');
}
else
{
    header('location:login.php');
}
?>
```



# Main Page

Logo  
image

Bank Name (Big Font-use header tags)

Dashboard | Open A/C | Loan | Deposit  
(Use table structure to make menu option)

Dashboard

## List of Depositors

| Name | A/C No. | Balance       | Details |
|------|---------|---------------|---------|
|      |         | Click to View |         |
|      |         |               |         |
|      |         |               |         |
|      |         |               |         |
|      |         |               |         |
|      |         |               |         |
|      |         |               |         |
|      |         |               |         |

## List of Borrowers

| Name | A/C No. | Balance       | Details |
|------|---------|---------------|---------|
|      |         | Click to View |         |
|      |         |               |         |
|      |         |               |         |
|      |         |               |         |
|      |         |               |         |
|      |         |               |         |
|      |         |               |         |
|      |         |               |         |

main\_page.php



| Customer_name | Account_number |
|---------------|----------------|
| Priya         | 102            |
| Yash          | 101            |
| Yash          | 201            |
| Vinay         | 217            |
| Anjali        | 222            |
| Divya         | 217            |
| Rohit         | 305            |

## Depositor Table

## Account Table

| Account_Number | Branch_Name  | Balance | Date    |
|----------------|--------------|---------|---------|
| 101            | Wright Town  | 500     | 5-2-11  |
| 215            | Mehgawan     | 700     | 3-7-12  |
| 102            | S street     | 400     | 6-8-10  |
| 305            | Napier town  | 350     | 4-6-09  |
| 201            | Stadium      | 900     | 9-4-10  |
| 222            | Cross square | 700     | 8-11-11 |
| 217            | Stadium      | 750     | 2-10-12 |

# Generation of “List of Depositor”

```
<?php
include('conf.php');
$sql="select customer_name, depositor.account_no, balance from
depositor inner join account on depositor.account_no=
account.account_no" ;
$res=mysqli_query($conn, $sql);
echo '<table border="1"><tr><th>Name</th><th>A/C No.</th><th>
Balance</th><th>Details</th></tr>';
while($result=mysqli_fetch_assoc($res))
{
    echo '<tr><td>'. $result['customer_name'] . '</td><td>'.
$result['account_no'] . '</td><td>' . $result['balance'] . '</td><td><a
href="account_detail.php?uid=' . $result['customer_name'] . ">View
Details</a></td></tr>';
}
echo '</table>';
?>
```

# View Customer Information

Logo  
image

Bank Name (Big Font-use header tags)

Dashboard | Open A/C | Loan | Deposit  
(Use table structure to make menu option)

## Account Opening Details

Customer Name: Values entered on previous screen

Address: Values entered on previous screen

City: Values entered on previous screen

**account\_detail.php**

# Register Customer:

Mandatory field as customer\_name is Primary Key

Logo  
image

Bank Name (Big Font-use header tags)

Dashboard | Open A/C | Loan | Deposit  
(Use table structure to make menu option)

Account Opening

Customer Name:

(Textfield)

Address:

(TextArea)

City:

(Textfield)

**Submit**

(Button)

**Reset**

(Button)

# Task

- First complete “View Customer Information” link and Account Opening function
- Complete your Web Application for Banking Enterprise Database
- You can develop “Main Page” and other pages in your own way
- You are free to include more and more functionality to your front end