

NOTE:[This PDF contain all tasks will screenshots, I have also attached all php files and .sql files]

NAME :: IBRAR BABAR

ROLL NO. 19P-0104

DATABASE LAB

ASSIGNMENT#2

Question # 01

source G:\4th Semester\DataBase_Lab\Assignments\Assignment#2\university.sql

```
mysql> source G:\4th Semester\DataBase_Lab\Assignments\Assignment#2\university.sql
Query OK, 0 rows affected, 1 warning (0.02 sec)

Query OK, 1 row affected (0.01 sec)

Database changed
Query OK, 0 rows affected (0.45 sec)

Query OK, 2 rows affected (0.08 sec)
Records: 2  Duplicates: 0  Warnings: 0

Query OK, 0 rows affected (0.68 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

```
CREATE TABLE courses (
course_code varchar(10) NOT NULL,
credit_hour INT NOT NULL,
course_name VARCHAR(16) NOT NULL,
PRIMARY KEY (course_code)
);
```

```
mysql> CREATE TABLE courses (
-> course_code varchar(10) NOT NULL,
-> credit_hour INT NOT NULL,
-> course_name VARCHAR(16) NOT NULL,
-> PRIMARY KEY (course_code)
-> );
Query OK, 0 rows affected (0.40 sec)
```

```
create table study(  
roll_no varchar(10) not null,  
course_code varchar(10) not null,  
primary key(roll_no,course_code)  
);
```

```
mysql> create table study(  
-> roll_no varchar(10) not null,  
-> course_code varchar(10) not null,  
-> primary key(roll_no,course_code)  
-> );  
Query OK, 0 rows affected (0.40 sec)
```

```
mysql> use university  
Database changed  
mysql> show tables;  
+-----+  
| Tables_in_university |  
+-----+  
| courses                |  
| student                |  
| study                  |  
+-----+  
3 rows in set (0.43 sec)
```

COURSE REGISTRATION FORM

```
<html>  
<head>  
  <title>Registration Form</title>  
</head>  
<body>  
<?php if (isset($_GET['form_submitted'])) {  
  //this code is executed when the form is submitted  
?>  
<h2>Thank You <?php echo "Course Registration from"; ?>  
</h2>  
<p>You have been registered as  
  <?php echo "<br />"; ?>
```

```

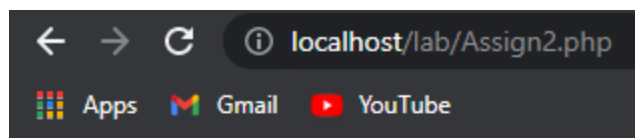
<?php echo "course_code : " . $_GET['course_code'];?>
<?php echo "<br />"; ?>
<?php echo "credit_hour : " . $_GET['credit_hour'];?>
<?php echo "<br />"; ?>
<?php echo "course_name : " . $_GET['course_name'];?>
<?php
$username = 'root';
$password = '';
try {
$conn = new
PDO("mysql:host=localhost;dbname=university", $username,
$password);
// set the PDO error mode to exception
$conn->setAttribute(PDO::ATTR_ERRMODE,
PDO::ERRMODE_EXCEPTION);
echo "Connected successfully";
} catch (PDOException $e) {
echo "Connection failed: " . $e->getMessage();
}
$course_code = $_GET["course_code"];
$credit_hour = $_GET["credit_hour"];
$course_name = $_GET["course_name"];
// $conn-
>query("insert into courses values('$course_code ',' $credit_hour ',' $course_name')");
$conn-
>query("insert into courses values(' $course_code ',' $credit_hour ',' $course_name')");

?>
</p>
<p>Go <a href="/lab/assign2.php">back</a> to the
form</p>
<?php }
else { ?>
<h2>Course Registration Form</h2>
<form action="Assign2.php" method="GET">
course_code:
<input type="text" placeholder="course_code"
name="course_code">
<br> credit_hour:
<input type="text" placeholder="credit_hour"
name="credit_hour">
<br> course_name:

```

```
<input type="text" placeholder="course_name"
name="course_name">

<input type="hidden" name="form_submitted"
value="1" />
<br>
<input type="submit" value="Submit">
</form>
<?php } ?>
</body>
</html>
```

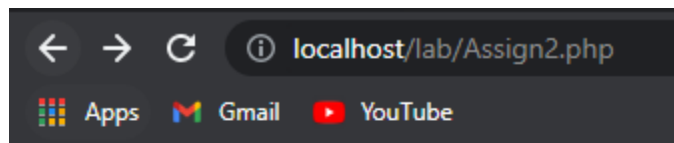


Course Registration Form

course_code:

credit_hour:

course_name:

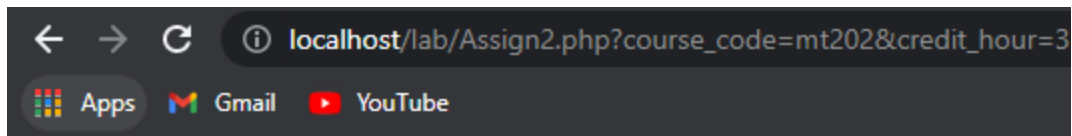


Course Registration Form

course_code:

credit_hour:

course_name:



Thank You Course Registration from

You have been registered as

course_code : mt202

credit_hour : 3

course_name : Probability Connected successfully

Go [back](#) to the form

```
mysql> select * from courses;
Empty set (0.00 sec)

mysql> select * from courses;
+-----+-----+-----+
| course_code | credit_hour | course_name |
+-----+-----+-----+
| mt202       | 3           | Probability |
+-----+-----+-----+
1 row in set (0.00 sec)
```

NOW I HAVE THESE THREE TABLES.

```
mysql> select * from student;
+-----+-----+-----+-----+-----+-----+
| roll_no | st_name   | f_name   | gender | contact | address |
+-----+-----+-----+-----+-----+-----+
| 19P-0085 | Asjid    | Tahir    | Male   | 3334177865 | 9S-5T-21 |
| 19P-0104 | ibrar    | Afzaal   | Male   | 3364177810 | B1-2S-29 |
| 19P-0105 | sherry   | ameen    | Male   | 3044377662 | P6-W9-53 |
| P19-6015 | Ali Abbas Khan | Niaz Khan | Male   | 03349174958 | asdjflasdjfl |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.14 sec)
```

```
mysql> select * from courses;
```

course_code	credit_hour	course_name
mt202	3	Probability
ce232	3	Machine Learning
cs220	3	Operating system
cs302	1	Database lab
CS709	3	Calculus

```
5 rows in set (0.07 sec)
```

```
mysql> select * from study;
```

roll_no	course_code
19P-0085	mt202
19P-0104	CS220
19P-0104	CS709
19P-0105	CS302
P19-6015	ce232

```
5 rows in set (0.02 sec)
```

```
<html>
<head>

    <title>Student Information</title>
    <style type="text/css">
#side_bar{
background-color: whitesmoke;
padding: 50px;
width: 150px;
height: 150px;
}
</style>
    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.3
.1/css/bootstrap.min.css" integrity="sha384-
gg0yR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQU0hcWr7x9JvoRxT2MZw1T" crossorigin="an
onymous">
</head>
<body>
<?php if (isset($_POST['roll_no'])) {

    $username = 'root';
    $password = '';
```

```

// Check connection
try {
    $conn = new PDO("mysql:host=localhost;dbname=university", $username, $password);
    // set the PDO error mode to exception
    $conn->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);
    echo "Connected successfully";
} catch(PDOException $e) {
    echo "Connection failed: " . $e->getMessage();
}

$roll_no = $_POST["roll_no"];

// where user id = 1301 OR 1=1

$query_1 = $conn->prepare("select * from student where roll_no = ?");
$query_1->execute([$roll_no]);
$result = $query_1->fetchAll(PDO::FETCH_ASSOC);

// $query_1 = $conn->prepare("select * from study where roll_no = ?");
// $query_1->execute([$roll_no]);
// $result = $query_1->fetchAll(PDO::FETCH_ASSOC);

// die;
?>
<h2>Searched Student <?php echo "Information"; ?></h2>
<table class="table">
    <thead>
        <tr>
            <th>Roll NO</th>
            <th>Student Name</th>
            <th>Father Name</th>
            <th>Gender</th>
            <th>Contact</th>
            <th>Address</th>
        </tr>
    </thead>

    <tbody>
        <?php
        foreach ($result as $key=>$value){
            echo ' <tr>
                <td>'.$value["roll_no"].'</td>
                <td>'.$value["st_name"].'</td>
                <td>'.$value["f_name"].'</td>

```

```

        <td>' . $value["gender"] . ' </td>
        <td>' . $value["contact"] . ' </td>
        <td>' . $value["address"] . ' </td>
    </tr>';
}

?>

</tbody>
</table>

<?php
    $roll_no = $_POST["roll_no"];
    $query_1 = $conn-
>prepare("select * from study where roll_no = ?");
    $query_1->execute([$roll_no]);
    $result = $query_1->fetchAll(PDO::FETCH_ASSOC);
    ?>
    <h2>Registered Courses</h2>
    <table class="table">
    <thead>
    <tr>
        <th>Roll NO</th>
        <th>Course Code</th>
    </tr>
    </thead>

    <tbody>
    <?php
    foreach ($result as $key=>$value){
        echo ' <tr>
            <td>' . $value["roll_no"] . ' </td>
            <td>' . $value["course_code"] . ' </td>
        </tr>';
    }
    ?>
    </tbody>
</table>
<?php
    $roll_no = $_POST["roll_no"];
    $query_1 = $conn->prepare("select * from courses join study
    using (course_code) join student using (roll_no) where roll_no !=
    ?");
    $query_1->execute([$roll_no]);

```



```

        $result = $query_1->fetchAll(PDO::FETCH_ASSOC);
    ?>
    <h2>Available Courses</h2>
    <table class="table">
    <thead>
    <tr>
        <th>Course Code</th>
        <th>Credit Hour</th>
        <th>Course Name</th>
    </tr>
    </thead>

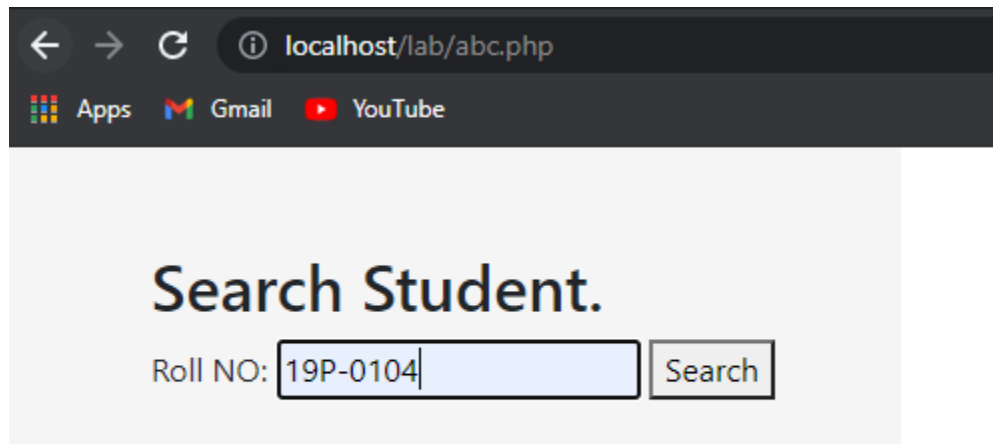
    <tbody>
    <?php
    foreach ($result as $key=>$value){
        echo ' <tr>
            <td>'.$value["course_code"].'</td>
            <td>'.$value["credit_hour"].'</td>
            <td>'.$value["course_name"].'</td>
            <td>
                <a href="Assign2.php" class="btn btn-
primary" role="button">Register</a>
            </td>
            </tr>';
        }
    ?>
    </tbody>
    </table>

    <?php
}
else {
    ?>
    <div class="row">
    <div class="col-md-4" id="side_bar">
    <ul>
        <h2>Search Student.</h2>
        <form action="abc.php" method="POST">
            Roll NO:
            <input type="text" name="roll_no">
            <button>Search</button>
        </form>
    </ul>

```

```
</div>
</div>

    <?php
}
?>
</body>
</html>
```



A screenshot of a web browser window. The address bar shows 'localhost/lab/abc.php'. Below the address bar are links for 'Apps', 'Gmail', and 'YouTube'. The main content area has a light gray background and contains the text 'Search Student.' in a large, bold font. Below this text is a form with the label 'Roll NO:' followed by a text input field containing '19P-0104' and a 'Search' button.

← → ↻ ⓘ localhost/lab/abc.php

Apps Gmail YouTube

Search Student.

Roll NO:

← → ↻ localhost/lab/abc.php ☆ ⚙ ⌵ 👤 : Reading list

Apps Gmail YouTube

Connected successfully

Searched Student Information

Roll NO	Student Name	Father Name	Gender	Contact	Address
19P-0104	ibrar	Afzaal	Male	3364177810	B1-25-29

Registered Courses

Roll NO	Course Code
19P-0104	CS220
19P-0104	CS709

Available Courses

Course Code	Credit Hour	Course Name	
mt202	3	Probability	Register
cs302	1	Database lab	Register
ce232	3	Machine Learning	Register

Question # 02

create database person;

USE PERSON;

CREATE TABLE USERS (

USER_ID MEDIUMINT(8) UNSIGNED NOT NULL AUTO_INCREMENT,

USERNAME VARCHAR(15) NOT NULL,

PASSWORD VARCHAR(20) NOT NULL,

EMAIL VARCHAR(30) NOT NULL,

PRIMARY KEY (USER_ID)

);

INSERT INTO USERS VALUES(1, 'ali', 'max', 'Am@GMAIL.COM');

INSERT INTO USERS VALUES(2,'super','user','sup@GMAIL.COM');

INSERT INTO USERS VALUES(3,'fast','exam12','fast123@GMAIL.COM');

```

INSERT INTO USERS VALUES(4,'nawaz','vpn68','nuces@yahoo.COM');

INSERT INTO USERS VALUES(5,'aslam','dopxyz','supreme@yahoo.COM');

INSERT INTO USERS VALUES(6,'rimsha','punjab','giki5@outlook.COM');

INSERT INTO USERS VALUES(7,'ibrar','hello','hyed@gamil.COM');

INSERT INTO SUMMARY VALUES(1,7,2,1,4);

```

```

mysql> select * from users;
+-----+-----+-----+-----+
| user_id | username | password | email |
+-----+-----+-----+-----+
| 1 | ali | max | am@gmail.com |
| 2 | super | user1 | sup@gmail.com |
| 3 | fast | exam12 | fast123@gmail.com |
| 4 | nawaz | vpn68 | nuces@yahoo.com |
| 5 | aslam | dopxyz | supreme@yahoo.com |
| 6 | rimsha | punjab | giki5@outlook.com |
| 7 | ibrar | hello | hyed@gmail.com |
+-----+-----+-----+-----+
7 rows in set (0.16 sec)

mysql> select * from summary;
+-----+-----+-----+-----+-----+
| id | total_users | Yahoo | outlook | Gmail |
+-----+-----+-----+-----+-----+
| 1 | 7 | 2 | 1 | 4 |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

```

Delimiter \$\$

create TRIGGER updatation_abc after update on users

for each row begin

declare yahoo_count int;

declare gmail_count int;

declare outlook_count int;

set yahoo_count =(select count(email) from users where email like("%%@yahoo.com"));

set gmail_count =(select count(email) from users where email like("%%@gmail.com"));

set outlook_count =(select count(email) from users where email like("%%@outlook.com"));

update summary set

```
yahoo=yahoo_count,  
gmail =gmail_count,  
outlook =outlook_count  
where id=1;  
end$$
```

```
mysql> Delimiter $$  
mysql> create TRIGGER updatation_abc after update on users  
-> for each row begin  
-> declare yahoo_count int;  
-> declare gmail_count int;  
-> declare outlook_count int;  
-> set yahoo_count =(select count(email) from users where email like("%%@yahoo.com"));  
-> set gmail_count =(select count(email) from users where email like("%%@gmail.com"));  
-> set outlook_count =(select count(email) from users where email like("%%@outlook.com"));  
-> update summary set  
->  
-> yahoo=yahoo_count,  
-> gmail =gmail_count,  
-> outlook =outlook_count  
-> where id=1;  
-> end$$  
Query OK, 0 rows affected (0.05 sec)
```

```
update users set email="am@outlook.com" where user_id=1;  
$$
```

```
mysql> update users set email="am@outlook.com" where user_id=1;  
-> $$  
Query OK, 1 row affected (0.24 sec)  
Rows matched: 1 Changed: 1 Warnings: 0  
  
mysql> select * from summary$$  
+---+-----+-----+-----+-----+  
| id | total_users | Yahoo | outlook | Gmail |  
+---+-----+-----+-----+-----+  
| 1 | 7 | 2 | 2 | 3 |  
+---+-----+-----+-----+-----+  
1 row in set (0.00 sec)
```
