

ASSIGNMENT - 2

1. **Create a user table with a user with email, username, roll number Password.**

```
CREATE TABLE user ( roll_number int, username varchar(300), email varchar(300), password varchar(300) );
```

2. **Perform UPDATE, DELETE Queries with user table INSERT Statement.**

```
INSERT INTO user ( roll_number, username, email, password) VALUES (25, 'Aseera', 'aseera11@gmail.com','asee11'), (71, 'Preetha', 'pre18@gmail.com', 'preeth18'), (74, 'Rahul', 'rah.ul5@gmail.com', 'rahul123'), (4, 'Shagithiya', 'shagii2022@gmail.com', 'shagi3');
```

UPDATE query:

```
UPDATE users SET username = 'Preetha' WHERE roll_number = "
```

DELETE query:

```
insert into user values(22,'shabana','sha@gmail.com', 'shaba22');  
delete from user where roll_number='22'
```

3. **Connect python with db2.**

```
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=824dfd4d99de-440d-9991-629c01b3832d.bs2io90l08kqb1od8lcg.databases.appdomain.cloud; PORT=30119;SECURITY=SSL; SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=lvq43963;PWD=B snsG1l2sBgIRhVN",'','')
```

4. **Create a flask app with a registration page, login page, and welcome page. by default load the registration page once the user enters all the fields store the data in the database and navigate to the login page to authenticate the user username and password. if the user is valid show the welcome page.**

```
from flask import Flask, render_template, request, redirect, url_for, session  
from flask_mysql import MySQL  
import MySQLdb.cursors
```

```

app = Flask(__name__) app.secret_key
= 'your secret key'
app.config['MYSQL_HOST'] = 'localhost'
app.config['MYSQL_USER'] = 'root'
app.config['MYSQL_PASSWORD'] = 'your password'
app.config['MYSQL_DB'] = 'userlogin'
mysql = MySQL(app)

@app.route('/')
@app.route('/login', methods =['GET', 'POST'])
def login():
    msg = 'if request.method == 'POST' and 'username' in request.form and
'password' in request.form:
        username = request.form['username']
        password = request.form['password']
        cursor = mysql.connection.cursor(MySQLdb.cursors.DictCursor)
        cursor.execute('SELECT * FROM accounts WHERE username = % s AND
password = % s', (username, password, )) account = cursor.fetchone()
        if account:
            session['loggedin'] = True
            session['id'] = account['id']
            session['username'] =
            account['username'] msg = 'Logged in
            successfully !'
            return render_template('index.html', msg = msg)
        else:
            msg = 'Incorrect username / password !'
            return render_template('login.html', msg = msg)

@app.route('/logout')
def logout():
    session.pop('loggedin', None)
    session.pop('id', None)
    session.pop('username', None)
    return redirect(url_for('login'))

@app.route('/register', methods =['GET',
'POST']) def register():
    msg = ''

```

```

        if request.method == 'POST' and 'username' in request.form and
'password' in request.form and 'email' in request.form :
            username
            =
            request.form['username']    password
            = request.form['password']  email =
            request.form['email']
            cursor = mysql.connection.cursor(MySQLdb.cursors.DictCursor)
            cursor.execute('SELECT * FROM accounts WHERE username = % s',
(username, ))
            account = cursor.fetchone()
            if account:
                msg = 'Account already exists !'
            elif      not      re.match(r'[^@]+@[^@]+\.[^@]+',
            email): msg = 'Invalid email address !'
            elif not re.match(r'[A-Za-z09]+', username):
                msg = 'Username must contain only characters and numbers !'
            elif not username or not password or not email:
                msg = 'Please fill out the form !'
            else:
                cursor.execute('INSERT INTO accounts VALUES (NULL, % s, % s,
% s)', (username, password, email, ))
                mysql.connection.commit()
                msg = 'You have successfully registered
!' elif request.method == 'POST':
                msg = 'Please fill out the form !'
            return render_template('register.html', msg = msg)

```

Register.html

```

{% extends 'header.html'%}
{% block head %}
<title>REGISTER</title>
{% endblock %}
{% block body%}
<div class="container">
<div class="row justify-content-center">
<div class="col-lg-7">

<div class="card shadow-lg border-0 rounded-lg mt-5">

```

```

        <div class="card-header bg-warning"><h3 class="text-center
font-weight-light my-4" style="color:white">CREATE ACCOUNT</h3></div>
        <div class="card-body">
            <form method="post" action="./regcode.php">
                <div class="row mb-3">
                    <div class="col-md-6">
                        <div class="form-floating mb-3 mb-md-0">
                            <input class="form-control"
name="firstname" required type="text" placeholder="Enter your first name"
/>
                            <label
                                for="inputFirstName">
                                    First
                                </label>
                        </div>
                    </div>
                    <div class="col-md-6">
                        <div
                            class="form-floating">
                            <input
                                class="form-control"
                                name="lastname" required type="text" placeholder="Enter your last name"
                                />
                            <label
                                for="inputLastName">
                                    Last
                                </label>
                            </div>
                        </div>
                        <div class="form-floating
mb-3">
                            <input class="form-control"
                                name="email"
                                required type="email" placeholder="name@example.com" />
                            <label for="inputEmail">Email address</label>
                        </div>
                    <div class="row mb-3">
                        <div class="col-md-6">
                            <div class="form-floating mb-3 mb-md-0">
                                <input class="form-control"
                                    name="password" required type="password" placeholder="Create a password"
                                    />
                                <label
                                    for="inputPassword">Password</label>
                            </div>

```

</div>

</div>

```

        <div class="col-md-6">
            <div class="form-floating mb-3 mb-md-0">
                <input class="form-control"
name="passwordc" required type="password" placeholder="Confirm password"
/>
                <label
for="inputPasswordConfirm">Confirm Password</label>
            </div>
        </div>
    </div>
    <div class="mt-4 mb-0">
        <button class="d-grid btn btn-primary
btn-block" name="user_register" type="submit">Register</button>
    </div>
</form>
</div>

</div>
</div>
</div>
</div>
{% endblock %}

```

Login.html

```

{% extends 'header.html'%}
{% block head %}
<title>LOGIN</title>
{% endblock %}
{% block body%}
<div class="container">
<div class="row justify-content-center">
<div class="col-lg-5">
<div class="card border-2 rounded-lg mt-5">
            <div class="card-header bg-warning"><h3 class="text-center
font-weight-light my-4 text-white ">LOGIN</h3></div>
<div class="card-body">
                <form method="post" action="./code.php">
                    <div class="form-floating mb-3">

```



```

        <div class="collapse navbar-collapse" id="navbarNavAltMarkup">
          <div class="navbar-nav">
            <a class="nav-link active" aria-current="page" href="/"
>HOME</a>
            <a class="nav-link" href="/blog" >BLOG</a>

          </div>

        </div>
      </div>
    </div>
    <!--<div class="btn-group" role="group" aria-label="Basic example">-->
      <a href="/login"><button type="button" class="btn btn-warning"
style="color:white; margin-right: 20px;"
><b>LOGIN</b></b></b></button></a>

      <a href="/register"><button type="button" class="btn
btn-warning"style="color:white; margin-right: 20px;"
><b>REGISTER</b></b></button></a>
    <!--</div>-->
  </nav>
  {%block body %} {% endblock %}

```

navbar.html

```

<nav class="navbar navbar-expand-lg bg-dark">
  <div class="container-fluid">
    <a class="navbar-brand text-white" href="#">PRIYADHARSHINI</a>
    <button class="navbar-toggler" type="button"
data-bs-toggle="collapse" data-bs-target="#navbarNavAltMarkup"
aria-controls="navbarNavAltMarkup" aria-expanded="false"
aria-label="Toggle navigation">
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="navbarNavAltMarkup">
      <div class="navbar-nav">
        <a class="nav-link active" aria-current="page" href="/"
>HOME</a>

```



```

        <a class="nav-link" href="/blog" >BLOG</a>

    </div>
</div>
</div>
<!--<div class="btn-group" role="group" aria-label="Basic example">-->
    <a href="/login"><button type="button" class="btn btn-warning"
style="color:white; margin-right: 20px;"
><b>LOGIN</b></b></b></button></a>

    <a href="/register"><button type="button" class="btn
btn-warning" style="color:white; margin-right: 20px;"
><b>REGISTER</b></b></button></a>

<!--</div>-->
</nav>
{%block body %} {% endblock %}

```

Home.html

```

{% extends 'home.html' %}<!--python scripts-->

{% block head %}
<title>HOME</title>
{% endblock %}

{% block body %}
<h1>This is home page</h1>
{% endblock %}

```