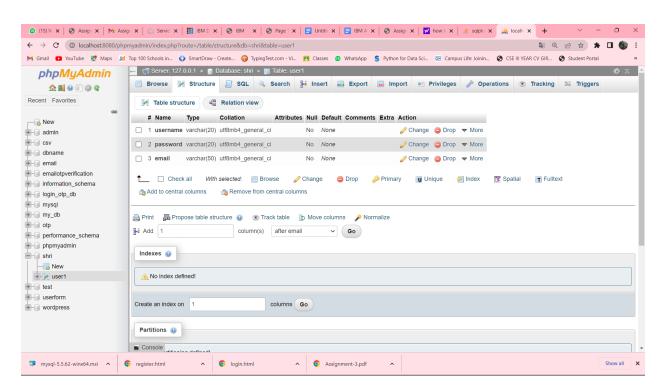# Assignment -3

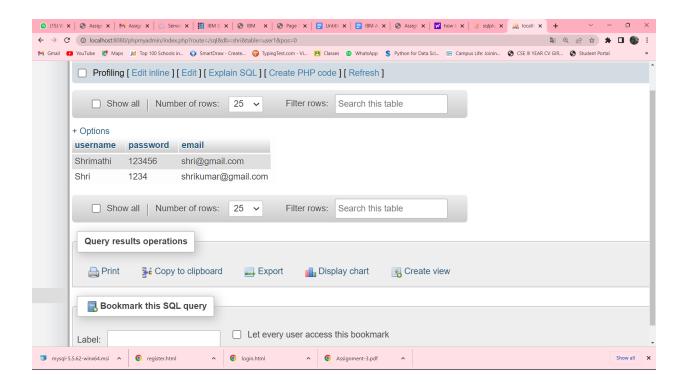|	
Assignment Date	21 October 2022
Student Name	Ms.S.Shrimathi(Team leader)
Student Roll Number	950019104042
Maximum Marks	2 Marks
Team ID	PNT2022TMID49592

1.Create User table with user with email, username, roll number, password.

CREATE TABLE user(username varchar(20) not null, password varchar(20) not null,email varchar(50) not null)
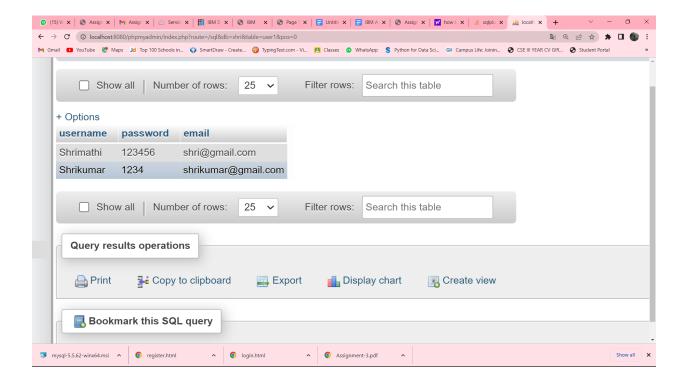

INSERT INTO user(username, password,email) VALUES('Shrimathi',123456, 'shrimathi@gmail.com')
INSERT INTO user(username, password,email) VALUES('shri',1234, 'shrikumar@gmail.com')
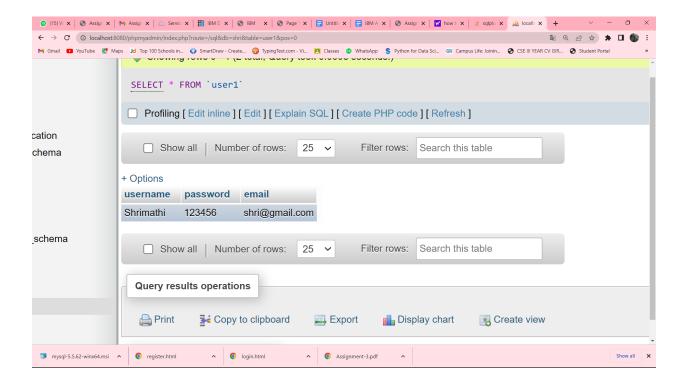
2.Perform UPDATE,DELETE Queries with user table

UPDATE user SET username='Shrikumar' WHERE email='shrikumar@gmail.com'

DELETE FROM user WHERE username = 'Shrikumar'

3.Connect python code to db2.

conn =
conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=b1bc1829-6f45-4cd4-bef4-10cf081900
bf.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32304;SECURITY=SSL;SSLServ
erCertificate=DigiCertGlobalRootCA.crt;UID=jpg92341;PWD=5HWT2lmD7POkuLnv","","")

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

Login.html

```
<html>
  <head>
    <meta charset="UTF-8">
    <title> Login </title>
  </head>
  <body></br></br></br></br>
    <div align="center">
      <div align="center" class="border">
```

```html
      <div class="header">
        <h1 class="word">Login</h1>
      </div></br></br></br>
      <h2 class="word">
        <form action="{{ url_for('login') }}" method="post">
         <div class="msg">{{ msg }}</div>
           <input id="username" name="username" type="text" placeholder="Enter Your
Username" class="textbox"/></br></br>
           <input id="password" name="password" type="password" placeholder="Enter Your
Password" class="textbox"/></br></br></br>
           <input type="submit" class="btn" value="Sign In"></br></br>
        </form>
      </h2>
      <p class="bottom">Don't have an account?  <a class="bottom"
href="{{url_for('register')}}"> Sign Up here</a></p>
      </div>
    </div>
  </body>
</html>
```

Register.html

```html
<html>
  <head>
    <meta charset="UTF-8">
    <title> Register </title>
  </head>
  <body></br></br></br></br></br>
    <div align="center">
     <div align="center" class="border">
       <div class="header">
        <h1 class="word">Register</h1>
      </div></br></br></br>
      <h2 class="word">
        <form action="{{ url_for('register') }}" method="post">
         <div class="msg">{{ msg }}</div>
           <input id="username" name="username" type="text" placeholder="Enter Your
Username" class="textbox"/></br></br>
           <input id="password" name="password" type="password" placeholder="Enter Your
Password" class="textbox"/></br></br>
           <input id="email" name="email" type="text" placeholder="Enter Your Email ID"
class="textbox"/></br></br>
           <input type="submit" class="btn" value="Sign Up"></br>
```
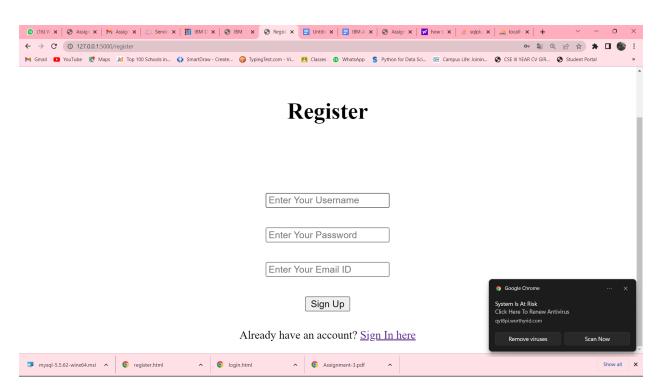
```html
        </form>
      </h2>
      <p class="bottom">Already have an account?  <a class="bottom"
href="{{url_for('login')}}"> Sign In here</a></p>
    </div>
   </div>
  </body>
</html>
```

Index.html

```html
{% extends 'base.html' %}

{% block head %}
    <title>Home Page</title>
{% endblock %}

{% block body %}
  <h1><b>Hello everyone This is Shrimathi,</b></h1>
  <h2><p>Welcome to my Website</p></h2>
{% endblock %}
```

App.py

```python
from flask import Flask, render_template, request, redirect, url_for, session
import ibm_db
import re
app = Flask(__name__)
app.secret_key = 'a'
conn =
ibm_db.connect("DATABASE=bludb;HOSTNAME=b1bc1829-6f45-4cd4-bef4-10cf081900bf.c1o
gj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32304;SECURITY=SSL;SSLServerCerti
ficate=DigiCertGlobalRootCA.crt;UID=jpg92341;PWD=5HWT2lmD7POkuLnv","","")
@app.route("/")
def index():
  return render_template('index.html')
@app.route('/login', methods =['GET', 'POST'])
def login():
  global userid
  msg = ''
  if request.method == 'POST' and 'username' in request.form and 'password' in request.form:
      username = request.form['username']
```
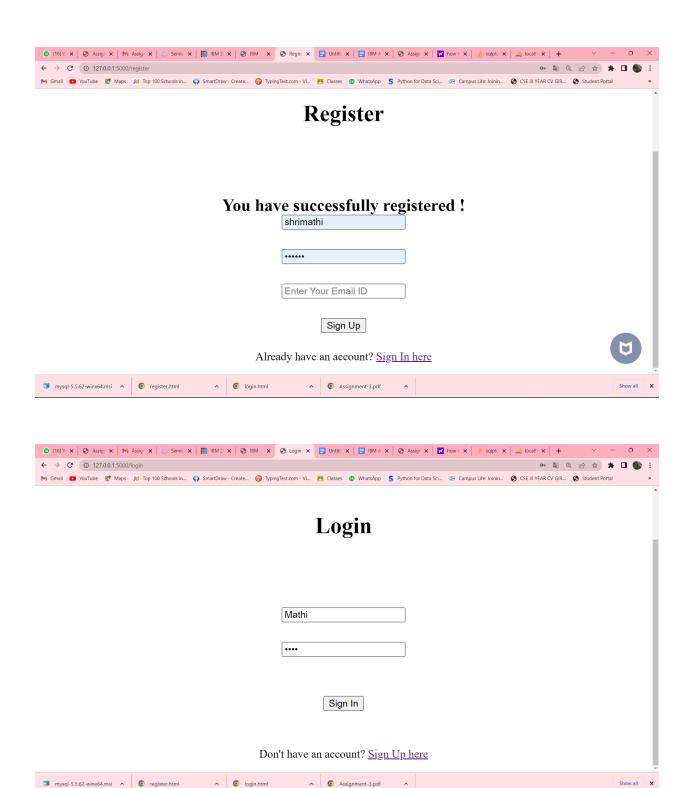
```python
        password = request.form['password']
        stmt = ibm_db.prepare(conn,'SELECT * FROM user WHERE username = ? AND
password = ?')
        ibm_db.bind_param(stmt,1,username)
        ibm_db.bind_param(stmt,2,password)
        ibm_db.execute(stmt)
        account = ibm_db.fetch_assoc(stmt)
        if account:
            session['loggedin'] = True
            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':
        username = request.form['username']
        password = request.form['password']
        email = request.form['email']
        sql = "SELECT * FROM user WHERE username = ? "
        stmt = ibm_db.prepare(conn,sql)
        ibm_db.bind_param(stmt,1,username)
        ibm_db.execute(stmt)
        account = ibm_db.fetch_assoc(stmt)
        print(account)
        if account:
            msg = 'Account already exists !'
        elif not re.match(r'[^@]+@[^@]+\.[^@]+', email):
            msg = 'Invalid email address !'
        elif not re.match(r'[A-Za-z0-9]+', 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:
    insert_sql = "INSERT INTO user VALUES (?, ?, ?)"
    stmt = ibm_db.prepare(conn,insert_sql)
    ibm_db.bind_param(stmt, 1, username)
    ibm_db.bind_param(stmt, 2, password)
    ibm_db.bind_param(stmt, 3, email)
    ibm_db.execute(stmt)
    msg = 'You have successfully registered !'
elif request.method == 'POST':
    msg = 'Please fill out the form !'

    return render_template('register.html', msg = msg)
if __name__ == '__main__':
    app.run(debug = True)
```

OUTPUT:

Register

You have successfully registered !

shrimathi

••••••

Enter Your Email ID

Sign Up

Already have an account? Sign In here

Login

Mathi

••••

Sign In

Don't have an account? Sign Up here

Hello everyone This is Shrimathi,

Welcome to my Website