Assignment -2

Assignment Date	14 OCTOBER 2022
Student Name	B.DHIVAGAR
Student Roll Number	422119104005
Maximum Marks	2 Marks

Question 1.

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

create table usertable(
roll_number int,
username varchar(300),
mail varchar(300),
password varchar(300));

	Field	Type	Null	Key	Default	Extra
>	roll_number	int	YES		NULL	
	username	varchar(300)	YES		NULL	
	mail	varchar(300)	YES		NULL	
	password	varchar(300)	YES		NULL	

Question 2.

Perform UPDATE, DELETE Queries with user table

INSERT STATEMENT:

INSERT INTO usertable

(roll_number, username, mail,password) VALUES

(1,Dhivagar,dhivagarb2001@gmail.com,dhiva005),

(2,'Rajesh','rajeshlrm11@gmail.com','rajeshlrm'),

(3,'Tamiloli',tamiloli123@gmail.com','tamil123'),

(4,'Vasanth',vasanthvasu@gmail.com','vasanthvasu12'),

(5,'Yokesh','yokeshmass@gmail.com','yokesh56');

roll_nu	ımber usernamı	e mail	password
1	Dhivagar	dhivagarb2001@gma	ail.com dhiva005
2	Rajesh	rajeshlrm11@gmail.c	om rajeshlrm
3	Tamiloli	tamiloli 123@gmail. co	m tamil123
4	Vasanth	vasanthvasu@gmail.	com vasanthvasu12
5	Yokesh	yokeshmass@gmail.d	com yokesh56

UPDATE STATEMENT:

UPDATE usertable

SET username='Rajesh'

WHERE roll_number=3;

	roll_number	username	mail	password
•	1	Dhivagar	dhivagarb2001@gmail.com	dhiva005
	2	Rajesh	rajeshlrm11@gmail.com	rajeshlrm
	3	Rajesh	tamiloli123@gmail.com	tamil 123
	4	Vasanth	vasanthvasu@gmail.com	vasanthvasu12
	5	Yokesh	yokeshmass@gmail.com	yokesh56

DELETE STATEMENT:

DELETE FROM usertable where roll_number=5;

	roll_number	username	mail	password
>	1	Dhivagar	dhivagarb2001@gmail.com	dhiva005
	2	Rajesh	rajeshlrm11@gmail.com	rajeshlrm
	3	Rajesh	tamiloli123@gmail.com	tamil 123
	4	Vasanth	vasanthvasu@gmail.com	vasanthvasu12

Question 3.

Connect python code to db2.

```
dsn_hostname = "2d46b6b4-cbf6-40eb-bbce-
6251e6ba0300.bs2io90l08kqb1od8lcg.databases.appdomain.cloud"
dsn_uid = "avengers005"
dsn_pwd = "multiverse"
dsn_driver = "{IBM DB2 ODBC DRIVER}"
dsn_database = "DB_ADMIN"
dsn_port = "32328"
dsn_protocol = "TCPIP"
dsn_security = "SSL"
dsn = (
  "DRIVER={0};"
  "DATABASE={1};"
  "HOSTNAME={2};"
  "PORT={3};"
  "PROTOCOL={4};"
  "UID={5};"
  "PWD={6};"
  "SECURITY={7};").format(dsn_driver, dsn_database, dsn_hostname, dsn_port,
dsn_protocol, dsn_uid, dsn_pwd,dsn_security)
print(dsn)
try:
  conn = ibm_db.connect(dsn, "", "")
  print ("Connected to database: ", dsn_database, "as user: ", dsn_uid, "on host: ",
dsn_hostname)
except:
  print ("Unable to connect: ", ibm_db.conn_errormsg() )
```

Question 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 with username and password. If the user is valid show the welcome page

Flask app:

App.py

```
from flask import Flask, render template, request, redirect, url for, session
from flask_mysqldb import MySQL
import MySQLdb.cursors
import re
app = Flask( name )
app.secret_key = 'your secret key'
app.config['MYSQL_HOST'] = 'localhost'
app.config['MYSQL USER'] = 'avengers005'
app.config['MYSQL_PASSWORD'] = 'multiverse'
app.config['MYSQL DB'] = 'login'
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 :
```

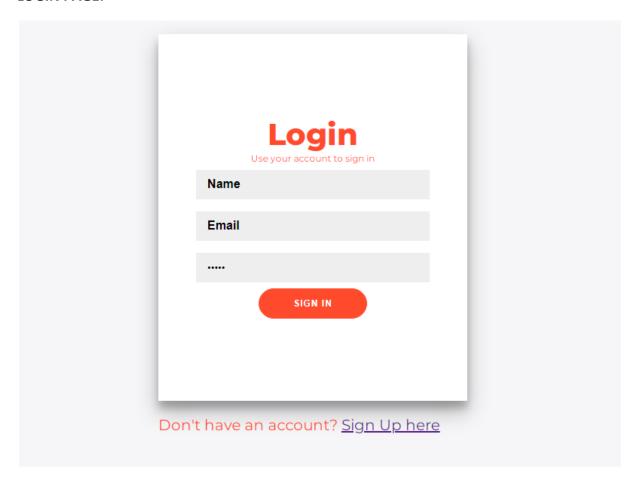
```
cursor = mysql.connection.cursor(MySQLdb.cursors.DictCursor)
                cursor.execute('SELECT * FROM accounts WHERE username = % s', (username, ))
                account = cursor.fetchone()
                if account:
                  msg = 'Account already exists!'
                elif not re.match(r'[^@]+@[^@]+\.[^@]+', email):
                  msg = 'Invalid email address!'
                elif not re.match(r'[A-Za-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:
                  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)
(env) C:\Users\GREAT\Desktop\login>flask run
                                                       not use it in a production
   Running on http://127.0.0.1:5000
```

username = request.form['username']

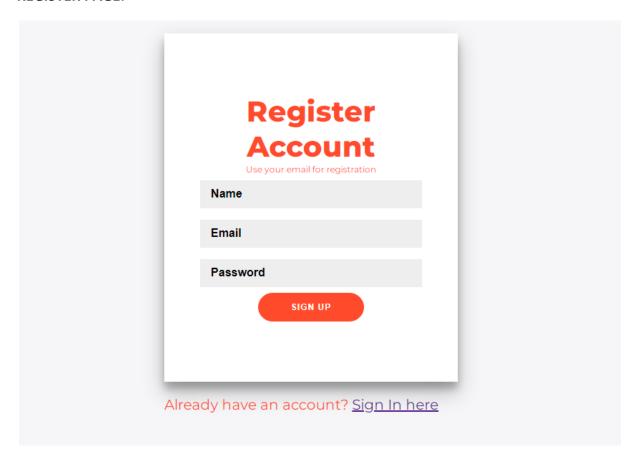
password = request.form['password']

email = request.form['email']

LOGIN PAGE:



REGISTER PAGE:



WELCOME PAGE:

