Assignment -2

Assignment Date	14 OCTOBER 2022
Student Name	G.SATHIYA
Student Roll Number	422119104024
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	Туре	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,salethreena,reena001@gmail.com,reena12),

(2,'karthika','karthika11@gmail.com','karthika123'),

(3,'samshath',samshath123@gmail.com','begam34'),

(4,'sathiya',sathiya78@gmail.com','sathiya345');

roll_number	username	mail	password
1	salethre	reena001@gmail.com	reena12
2	karthika	karthika11@gmail.com	karthika 123
3	samshath	samshath123@gmail.com	begam34
4	sathiya	sathiya78@gmail.com	sathiya345

UPDATE STATEMENT:

UPDATE usertable

SET username='sathiya'

WHERE roll_number=3;

roll_nur	mber username	mail	password
1	salethre	reena001@gmail.com	reena 12
2	karthika	karthika11@gmail.com	karthika 123
3	sathiya	samshath 123@gmail.com	begam34
4	sathiya	sathiya78@gmail.com	sathiya345

DELETE STATEMENT:

DELETE FROM usertable where roll_number=4;

roll_number	username	mail	password
1	salethre	reena001@gmail.com	reena12
2	karthika	karthika 11@gmail.com	karthika 123
3	samshath	samshath123@gmail.com	begam34

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:
    username = request.form['username']
    password = request.form['password']
```

```
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)
      C:\Users\GREAT\Desktop\login>flask run
  Running on http://127.0.0.1:5000
ress CTRL+C to quit
           LOGIN PAGE:
```

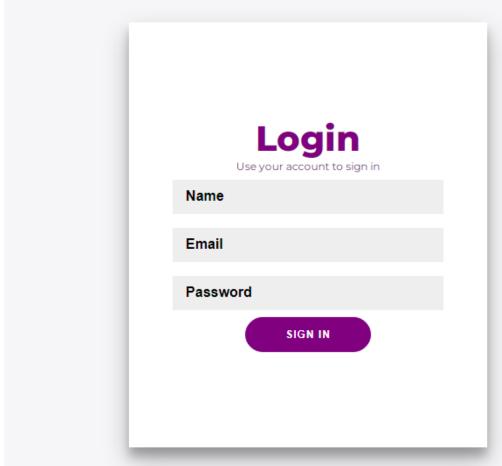
email = request.form['email']

account = cursor.fetchone()

if account:

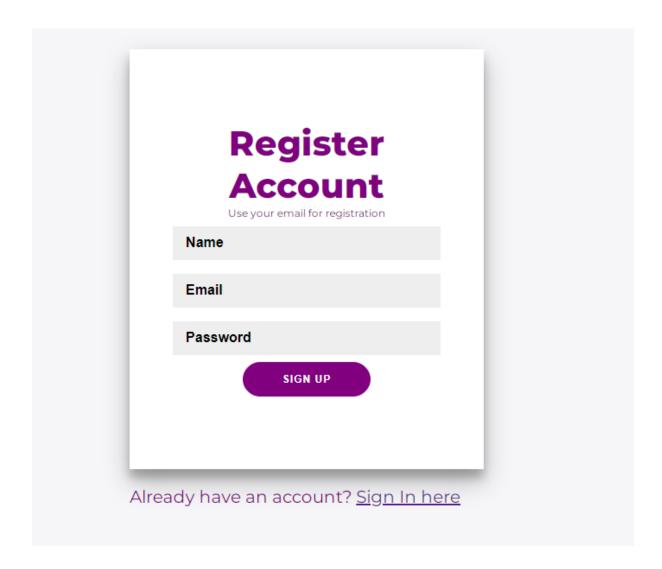
cursor = mysql.connection.cursor(MySQLdb.cursors.DictCursor)

cursor.execute('SELECT * FROM accounts WHERE username = % s', (username,))



Don't have an account? Sign Up here

REGISTER PAGE:



WELCOME PAGE:

