ASSIGNMENT-2

DATE	23 SEPTEMBER 2022
STUDENT NAME	SAI KUTTHALINGAM S
STUDENT ROLL NUMBER	95071914077
MAXIMUM MARKS	2 MARKS

QUESTION-1:

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

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

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

User

roll_number	username	email	password
empty			

2. Perform UPDATE, DELETE queries with user tab

INSERT statement:

INSERT INTO user
(roll_number, username ,email, password) VALUES
(1, 'Natesan', 'natesan@gmail.com','natesan01'),
(2, 'Sai Meenakshinathan', 'saiashwin@gmail.com','sai555'),
(3, 'Sai Kutthalingam', 'saiakash@gmail.com','akash'),
(4, 'Thayaneshwaran', 'thayaneshwaran@gmail.com','thaya111');

```
INSERT INTO user
( roll_number, username ,email, password) VALUES
(1, 'Natesan', 'natesan@gmail.com','natesan01'),
(2, 'Sai Meenakshinathan', 'saiashwin@gmail.com','sai555'),
(3, 'Sai Kutthalingam', 'saiakash@gmail.com','akash'),
(4, 'Thayaneshwaran', 'thayaneshwaran@gmail.com','thaya111');
```

User

roll_number	username	email	password
1	Natesan	natesan@gmail.com	natesan01
2	Sai Meenakshinathan	saiashwin@gmail.com	sai555
3	Sai Kutthalingam	saiakash@gmail.com	akash
4	Thayaneshwaran	thayaneshwaran@gmail.com	thaya111

UPDATE statement:

UPDATE users
SET username = 'Sai'
WHERE roll_number =’2’

```
UPDATE user
SET username = 'Sai'
WHERE roll_number='2'
```

User

roll_number	username	email	password
1	Natesan	natesan@gmail.com	natesan01
2	Sai	saiashwin@gmail.com	sai555
3	Sai Kutthalingam	saiakash@gmail.com	akash
4	Thayaneshwaran	thayaneshwaran@gmail.com	thaya111

INSERT statement:

insert into user values(5,'Suresh', 'suresh@gmail.com','suresh') ;

```
insert into user values(5,'Suresh','suresh@gmail.com','suresh') ;
```

User

roll_number	username	email	password
1	Natesan	natesan@gmail.com	natesan01
2	Sai	saiashwin@gmail.com	sai555
3	Sai Kutthalingam	saiakash@gmail.com	akash
4	Thayaneshwaran	thayaneshwaran@gmail.com	thaya111
5	Suresh	suresh@gmail.com	suresh

DELETE statement:

delete from user where roll_number='5'

```
delete from user where roll_number='5'
```

User

roll_number	username	email	password
1	Natesan	natesan@gmail.com	natesan01
2	Sai	saiashwin@gmail.com	sai555
3	Sai Kutthalingam	saiakash@gmail.com	akash
4	Thayaneshwaran	thayaneshwaran@gmail.com	thaya111

3. Connect db with Python

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.

```
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=824dfd4d-99de-440d- 9991-

629c01b3832d.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;PORT=30119;SE

CURITY=SSL

;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=lvq43963;PWD=BsnsG1l2s

BgIRhVN",' ',")

from flask import Flask, render_template, request, redirect, url_for, session

from flask_mysqldb import MySQL import MySQLdb.cursors import reapp = 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'] = 'geeklogin' 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'] 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-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)
```

OUTPUT:


Login
Enter Your Username
Enter Your Password
Sign In
Don't have an account? Sign Up here


Index
Hi user!!
Welcome to the index page...
Logout