

ASSIGNMENT-2

DATE	23 SEPTEMBER 2022
STUDENT NAME	THAYANESHWARAN M
STUDENT ROLL NUMBER	95071914095
MAXIMUM MARKS	2 MARKS

QUESTION-1:

1. Create User table with user with email, username, 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_mysql 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:



The image shows a web form titled "Register" on a light blue background. The form consists of four dark blue rounded rectangular buttons stacked vertically. The first three buttons are labeled "Enter Your Username", "Enter Your Password", and "Enter Your Email ID" respectively. The fourth button is labeled "Sign Up". Below the buttons, there is a line of text: "Already have an account? [Sign In here](#)".

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