Assignment 2

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

```
CREATE TABLE USER (
rollno INTEGER PRIMARY KEY,
email TEXT NOT NULL,
name TEXT NOT NULL,
password TEXT NOT NULL
);

INSERT INTO USER VALUES(0001,'varun@gmail.com','varun','123@45');
INSERT INTO USER VALUES (0002, 'shinu@gmail.com', 'shinu', '123@67');
INSERT INTO USER VALUES (0003, 'janani@gmail.com', 'janani', '123@89');
INSERT INTO USER VALUES (0004, 'ramkishore@gmail.com',
'ramkishore', '123@899');SELECT * FROM USER;
```

2. **Perform UPDATE,DELETE Queries with user table**

```
CREATE TABLE USER (
rollno INTEGER PRIMARY KEY,
email TEXT NOT NULL,
name TEXT NOT NULL,
password TEXT NOT NULL
);

INSERT INTO USER VALUES(0001,'varun@gmail.com','varun','123@45');
INSERT INTO USER VALUES (0002, 'shinu@gmail.com', 'shinu', '123@67');
INSERT INTO USER VALUES (0003, 'janani@gmail.com', 'janani', '123@89');
INSERT INTO USER VALUES (0004, 'ramkishore@gmail.com', 'ramkishore',
'123@899');

UPDATE USER
SET name='john', email='john@gmail.com'
WHERE rollno='1';
DELETE FROM USER WHERE rollno='2';
SELECT * FROM USER;
```

3. Connect python code to db2.

```python
fromibm_db import connect
# Careful with the punctuation here - we have 3 arguments.
# The first is a big string with semicolons in it.
# (Strings separated by only whitespace, newlines included,
#  are automatically joined together, in case you didn't know.)
# The last two are empty strings.
connection = connect('DATABASE=<database name>;'
            'HOSTNAME=<database ip>;'  # 127.0.0.1 or localhost works if it's
local
            'PORT=<database port>;'
            'PROTOCOL=TCPIP;'
            'UID=<database username>;'
            'PWD=<username password>;', '', '')
```

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 databaseand navigate to login page authenticate user username and password. If the user is valid show the welcome page

```python
# Store this code in'app.py'file

from flask import Flask, render_template, request, redirect, url_for, session
fromflask_mysqldb import MySQL
importMySQLdb.cursors
import re
app = 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 =''
ifrequest.method
=='POST'and'username'inrequest.formand'password'inrequest.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 !'
```

```
                returnrender_template('index.html', msg = msg)
                else:
                msg ='Incorrect username / password !'
                returnrender_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
                 else:
                cursor.execute('INSERT INTO accounts VALUES (NULL, % s, % s, % s)',
                (username, password, email,))
                mysql.connection.commit()
                msg ='You have successfully registered !'
                elifrequest.method =='POST':
                msg ='Please fill out the form !'
                returnrender_template('register.html', msg = msg)
```

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