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, 'tlead@gmail.com', 'teamlead', '123@45');
INSERT INTO USER VALUES (0002, 'tmem1@gmail.com', 'tmem1', '123@67');
INSERT INTO USER VALUES (0003, 'tmem2@gmail.com', 'tmem2 '123@89');
INSERT INTO USER VALUES(0004, 'tmem3@gmail.com', 'tmem3', '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, 'sharan@gmail.com', 'sharan', '123@45');
INSERT INTO USER VALUES (0002, 'saju@gmail.com', 'saju', '123@67');INSERT
INTO USER VALUES (0003, 'pravin@gmail.com', 'pravin', '123@89');
INSERT INTO USER VALUES (0004, 'ss@gmail.com', 'ss', '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.

```
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 emptry strings.
```

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

```
# 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
('/register', methods =['GET', 'POST'])
              def register():
              msg ="
              ifrequest.method
              =='POST'and'username'inrequest.formand'password'inrequest.formand'emai
              l'inrequest.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!'
              elifrequest.method =='POST':
              msg ='Please fill out the form!'
              returnrender template('register.html', msg = msg)
```

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