Assignment -2

Assignment Date	19 September 2022
Student Name	AJAY S
Student Roll Number	AC19UIT002
Maximum Marks	2 Marks

Question-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 users (
    roll_number int,
    username varchar(300),
    email varchar(300),
    password varchar(300)
);
```

Output

SQL query successfully executed. However, the result set is empty.

1. Perform UPDATE, DELETE Queries with user table

INSERT Statement:

INSERT INTO user

(roll_number, username ,email, password) VALUES

(1, 'Raja lingam', 'rajalingam@gmail.com','raju987'),

(2, 'Ajay', 'ajay@gmail.com','ajay654'),

(3, 'Anton', 'anton@gmail.com','anton321'),

(4, 'Prasanth', 'prasanth@gmail.com','prasanth123');

```
INSERT INTO user
    ( roll_number, username ,email, password)  VALUES
     (1, 'Raja lingam', 'rajalingam@gmail.com','raju987'),
     (2, 'Ajay', 'ajay@gmail.com','ajay654'),
     (3, 'Anton', 'anton@gmail.com','anton321'),
     (4, 'Prasanth', 'prasanth@gmail.com','prasanth123');
```

Output | Available Tables

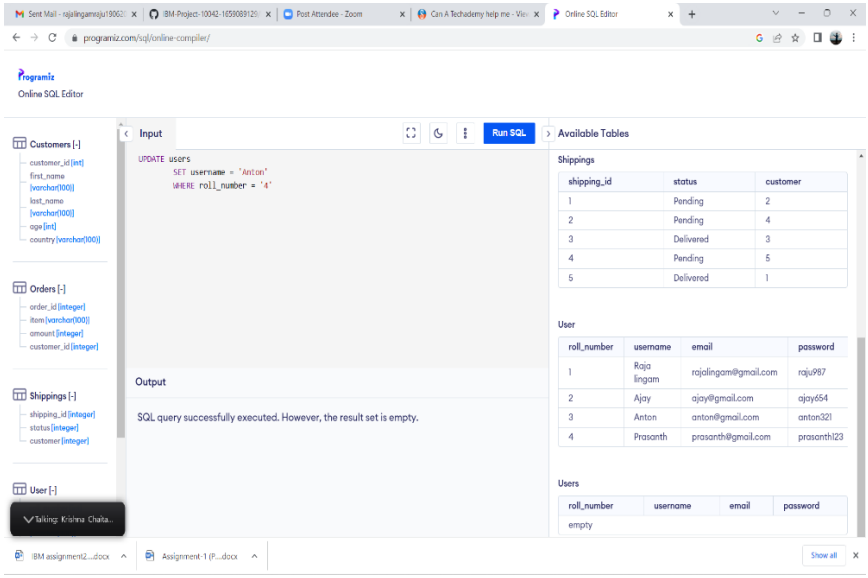
5	Delivered	1

User

roll_number	username	email	password
1	Raja lingam	rajalingam@gmail.com	raju987
2	Ajay	ajay@gmail.com	ajay654
3	Anton	anton@gmail.com	anton321
4	Prasanth	prasanth@gmail.com	prasanth123

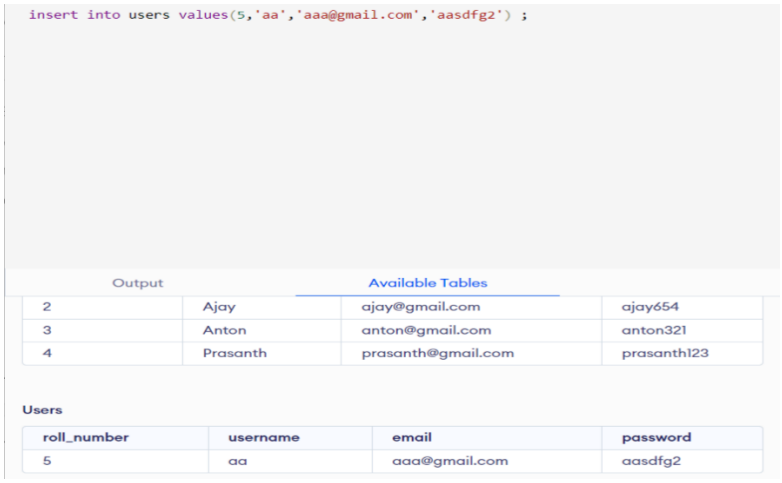
UPDATE Statement:

```
UPDATE users
SET username = 'Anton'
WHERE roll_number = '4'
```



Insert & DELETE Statement:

```
insert into users values(5,'aa','aaa@gmail.com','aasdfg2') ;
```




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

Connect python with db2

conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=824dfd4d-99de-440d-9991-
629c01b3832d.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;PORT=30119;SECURITY=SSL
;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=lvq43963;PWD=BsnsG1l2sBgIRhVN",' ',")

1. 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

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']

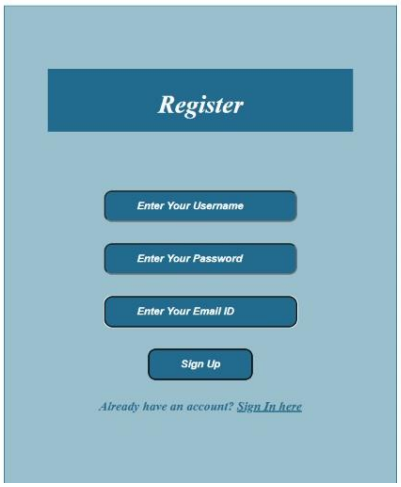
password = request.form['password']

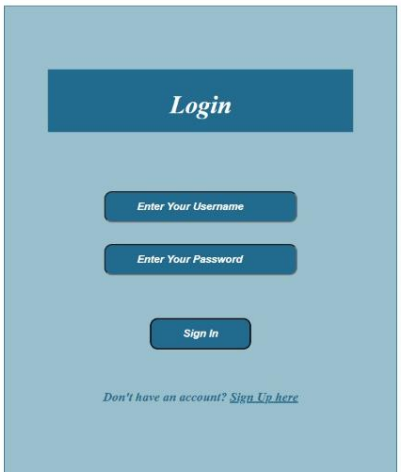
```
            cursor = mysql.connection.cursor(MySQLdb.cursors.DictCursor)
            cursor.execute('SELECT * FROM accounts WHERE username = % s
        AND password = % s', (username, password, ))
            account = cursor.fetchone()
            if account:
                session['loggedin'] = 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']
```

```
            email = request.form['email']
            cursor = mysql.connection.cursor(MySQLdb.cursors.DictCursor)
            cursor.execute('SELECT * FROM accounts WHERE username = % s',
(username)
  account = cursor.fetc
              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)
```


Register
Enter Your Username
Enter Your Password
Enter Your Email ID
Sign Up
Already have an account? Sign In here


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