Assignment Date	19 September 2022
Student Name	Ashwini Madappan Naidu
Student Roll Number	AC19UIT052
Maximum Marks	2 Marks

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)
);
```
OUTPUT:

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

Output

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

User

roll_number   username   email   password

empty
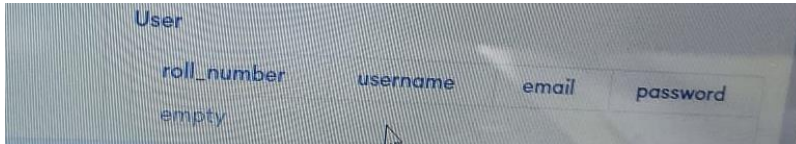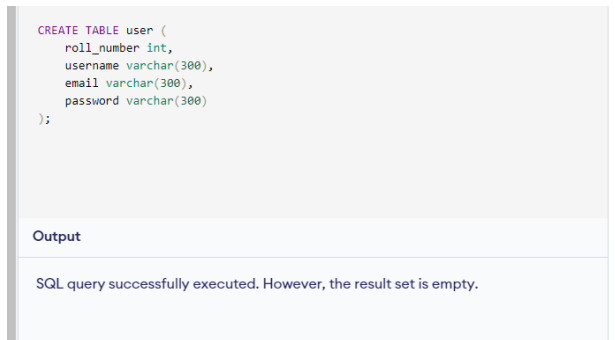
2. Perform UPDATE, DELETE Queries with user table

INSERT Statement:

INSERT INTO user

(roll_number, username ,email, password) VALUES

(1, 'akshya', 'akshya@gmail.com','akshya123'),

(2, 'ashwini', 'ashwini@gmail.com','ashwini123'),

(3, 'durga', 'durga@gmail.com','durga123'),

(4, 'deekshitha', 'deekshi@gmail.com','deekshi123');

OUTPUT:

```
INSERT INTO user
    ( roll_number, username ,email, password)  VALUES
    (1, 'akshya', 'akshya@gmail.com','akshya123'),
    (2, 'ashwini', 'ashwini@gmail.com','ashwini123'),
    (3, 'durga', 'durga@gmail.com','durga123'),
    (4, 'deekshitha', 'deekshi@gmail.com','deekshi123');
```

Output

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

roll_number	username	email	password
1	akshya	akshya@gmail.com	akshya123
2	ashwini	ashwini@gmail.com	ashwini123
3	durga	durga@gmail.com	durga123
4	deekshi	deekshi@gmail.com	deekshi123

UPDATE Statement:

UPDATE user

SET username = 'deekshi'

WHERE roll_number = '4'

OUTPUT:

```
UPDATE user
    SET username = 'deekshi'
    WHERE roll_number = '4'
```

Output

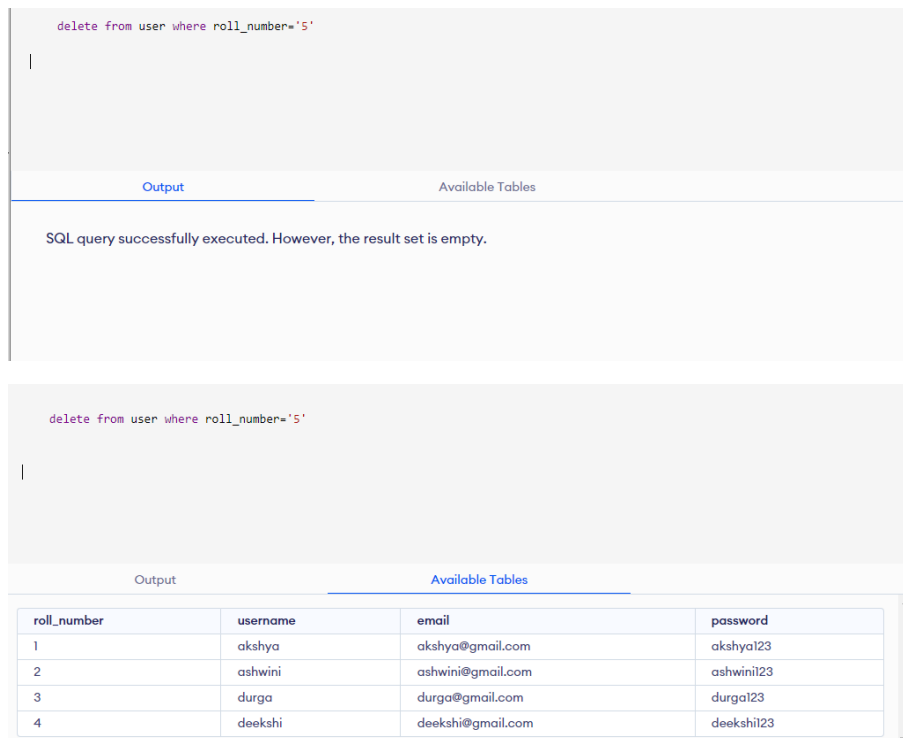SQL query successfully executed. However, the result set is empty.

```
SELECT * FROM Customers;
```

Output

customer_id	first_name	last_name	age	country
1	John	Doe	31	USA
2	Robert	Luna	22	USA
3	David	Robinson	22	UK
4	John	Reinhardt	25	UK
5	Betty	Doe	28	UAE

DELETE Statemnet:

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

delete from users where roll_number='5'

OUTPUT:

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

Output	Available Tables

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

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

Output	Available Tables

roll_number	username	email	password
1	akshya	akshya@gmail.com	akshya123
2	ashwini	ashwini@gmail.com	ashwini123
3	durga	durga@gmail.com	durga123
4	deekshi	deekshi@gmail.com	deekshi123

3. 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",' ',")

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'])
```

```python
    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']
```

```python
        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)
```
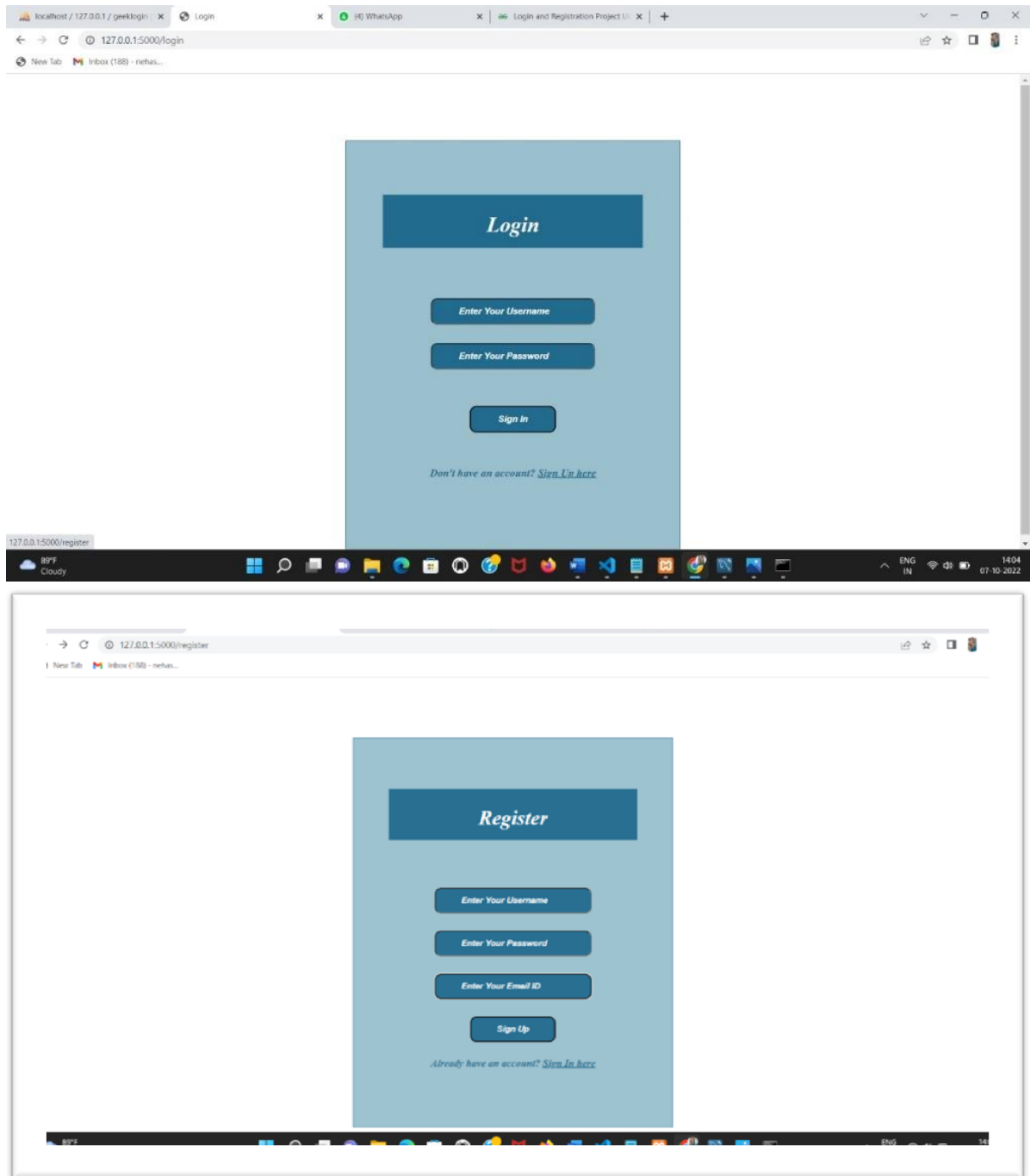
OUTPUT:

Index

Hi user!!

Welcome to the index page...

Logout