

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:



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', 'deekshitha@gmail.com', 'deekshi123');
```

Output

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

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

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		Available Tables		
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:

The screenshot shows a SQL query execution interface. The query entered is `delete from user where roll_number='5'`. The output tab is selected, showing the message: "SQL query successfully executed. However, the result set is empty." Below this, there is a table titled "Available Tables" which lists the remaining users in the database.

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

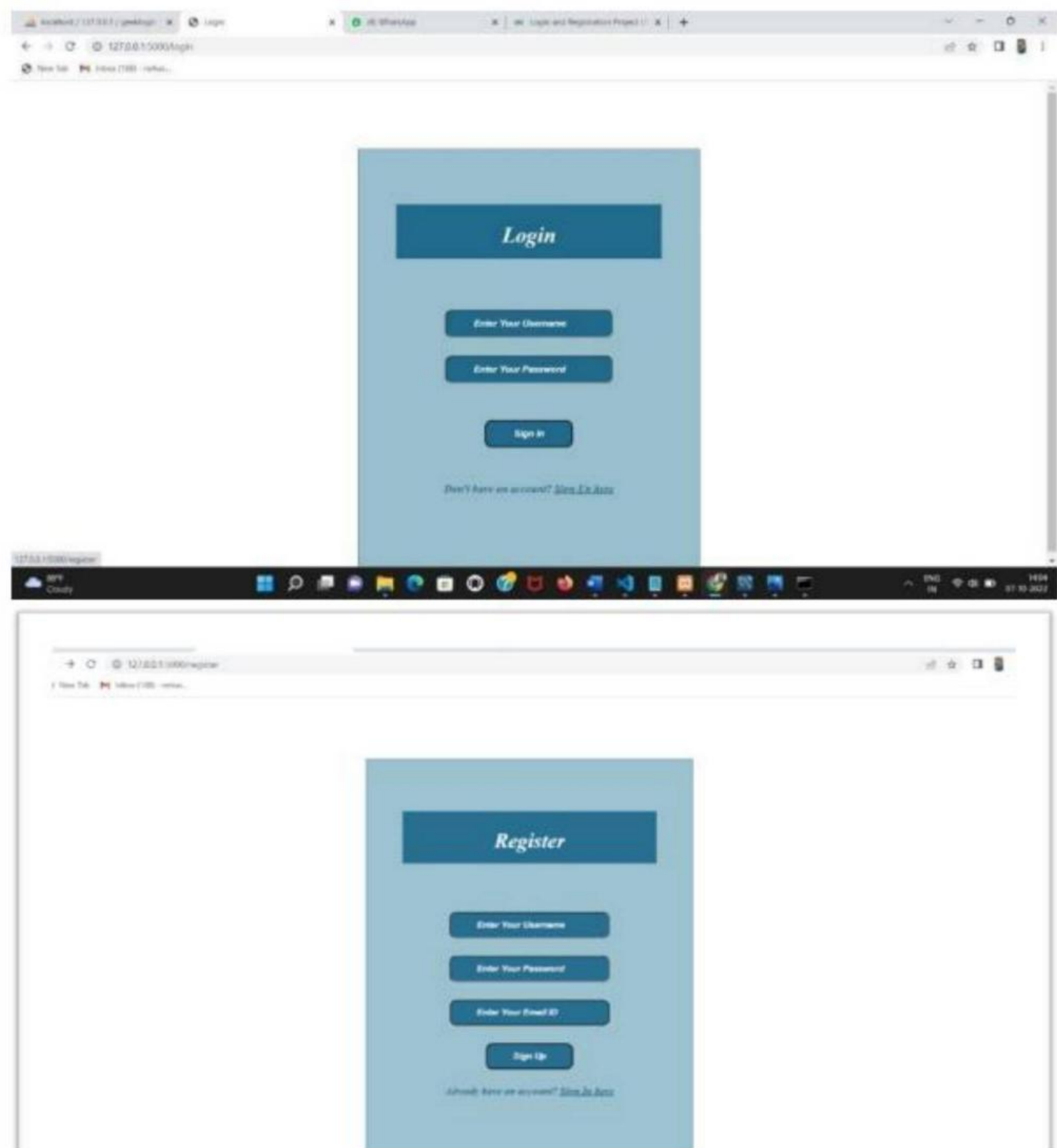
```
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=824dfd4d-99de-440d-9991-  
629c01b3832d.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;PORT=30119;SECUR  
ITY=SSL ;  
SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=lvq43963;PWD=BsnsG1l2sBgI RhVN",'  
,')  
from flask import Flask, render_template, request, redirect, url_for, session  
from flask_mysqlldb 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.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