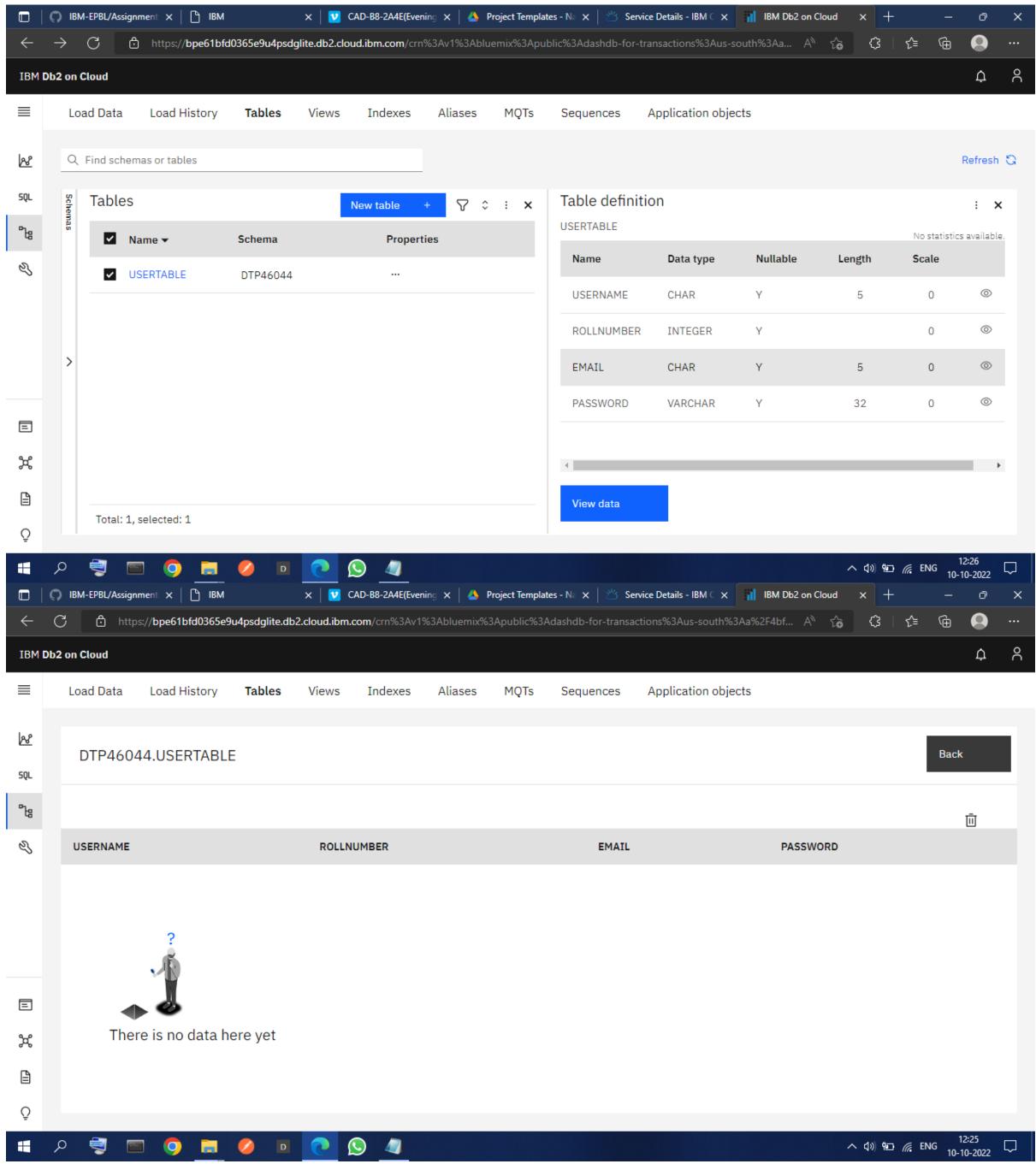
# **Assignment -2** IBM CLOUD DB2

Assignment Date	29 September 2022	
Student Name	SALAM LEMBA LUWANG	
Student Roll Number	960519104071	
Maximum Marks	2 Marks	

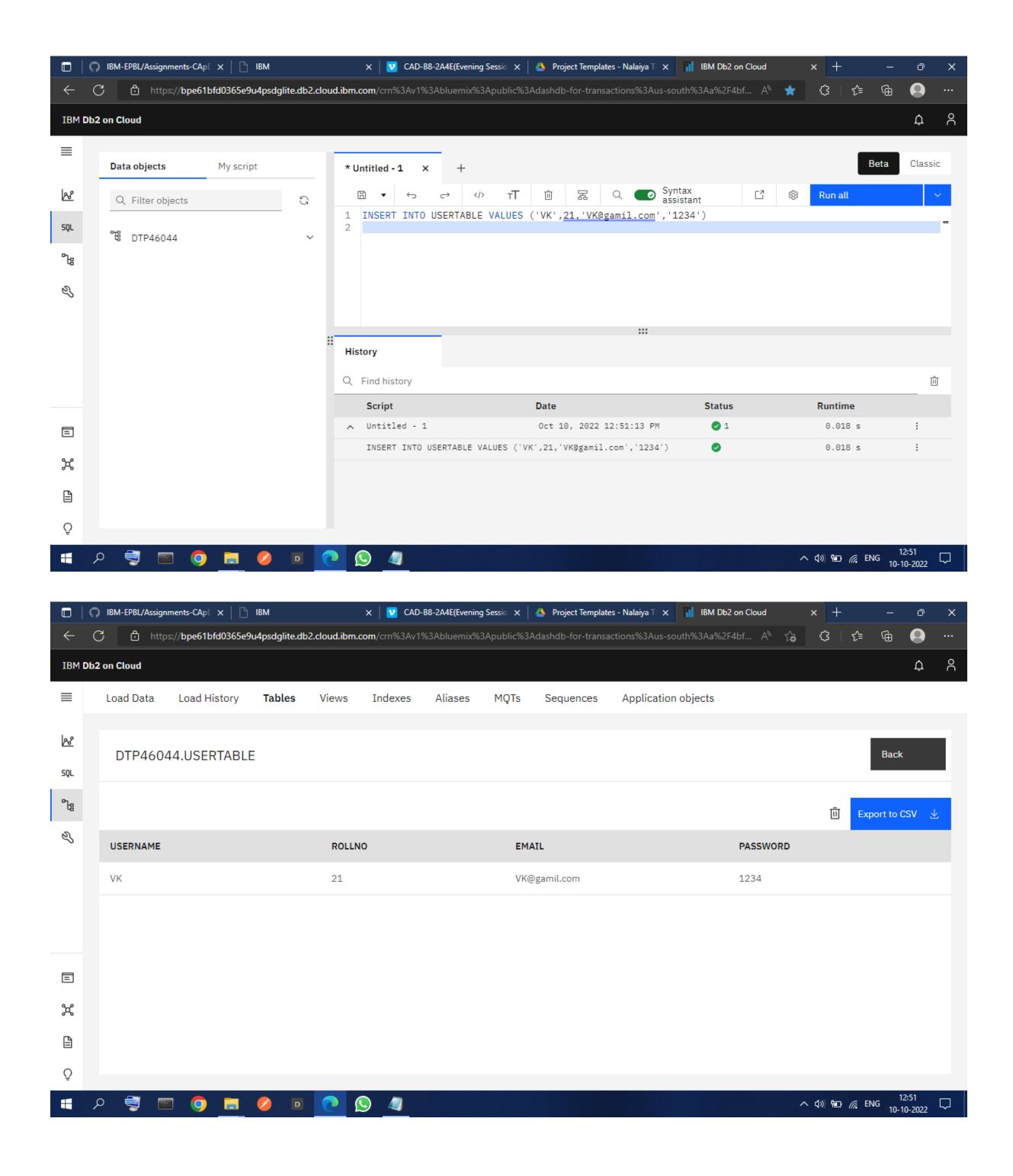
# **Questions:**

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

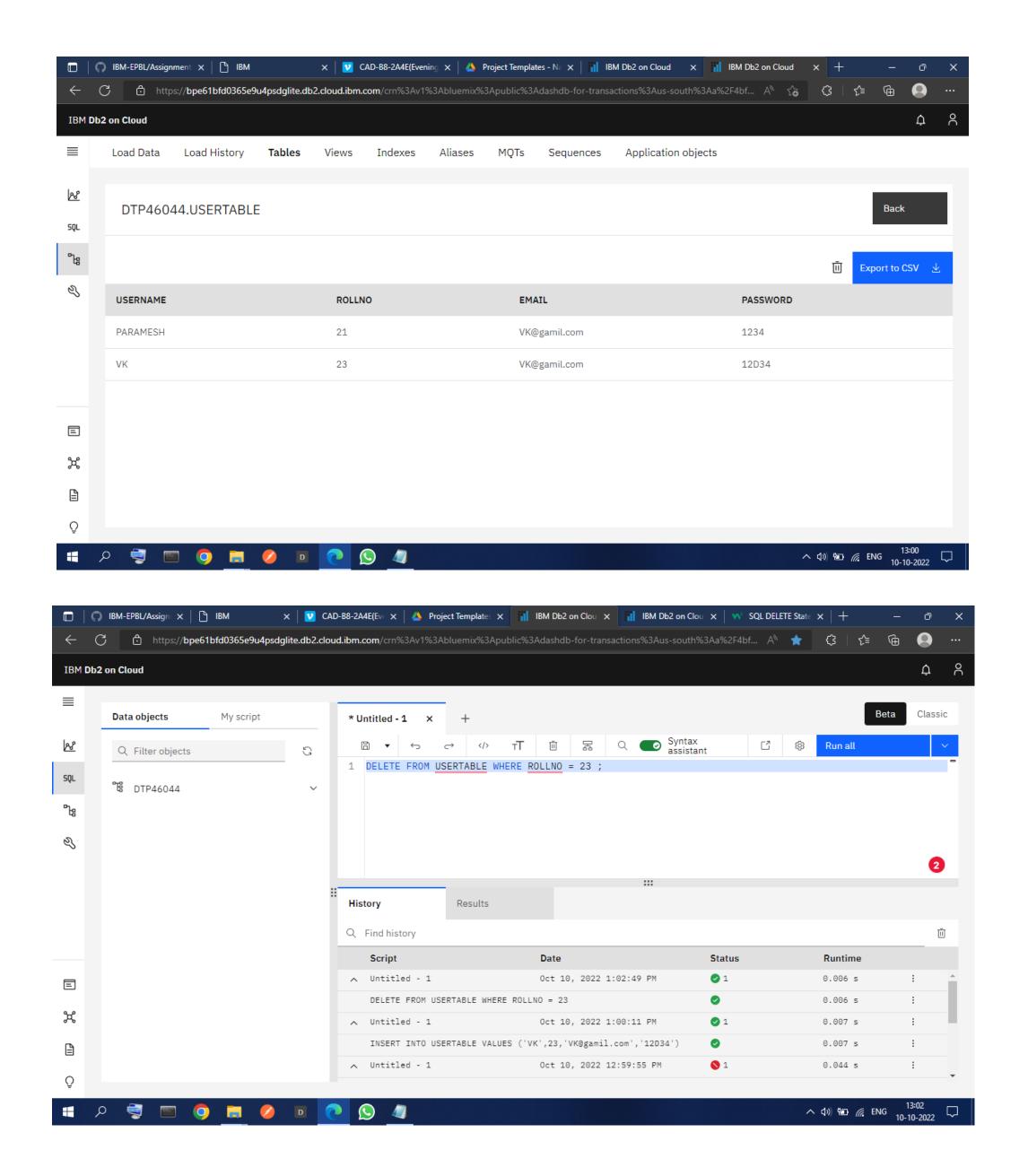


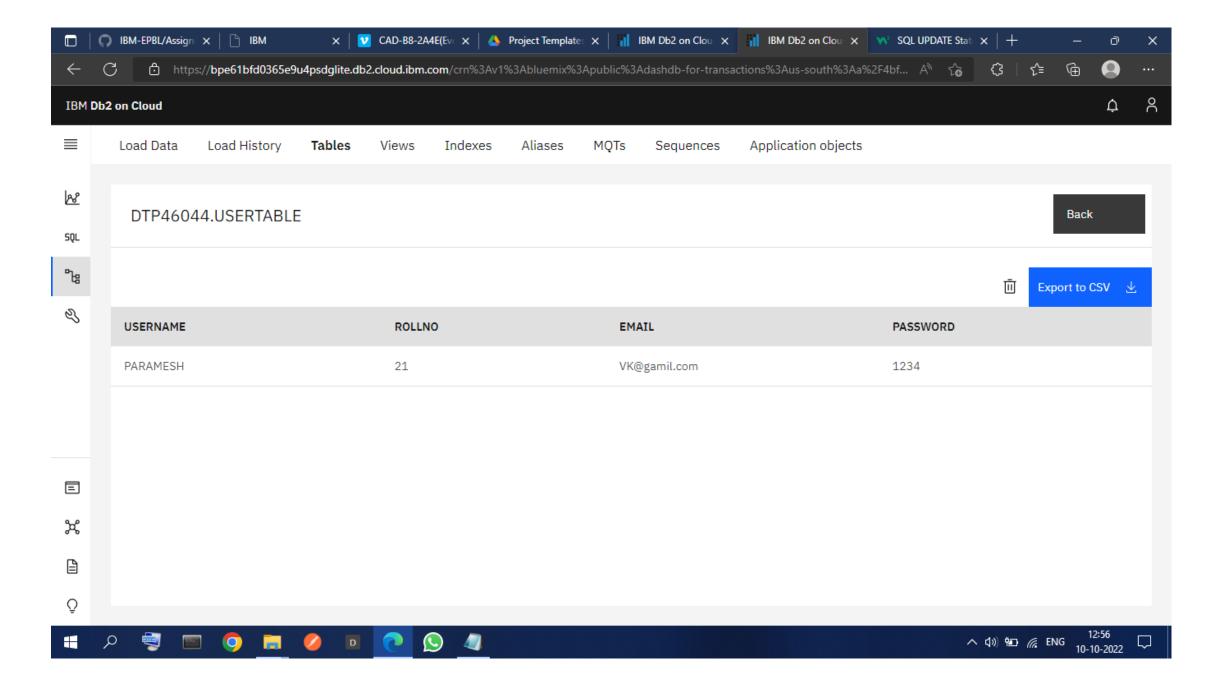
2. Perform UPDATE, DELETE Queries with user table.

#### **UPDATE TABLE:-**



## **DELETE TABLE:-**





3. Connect python code to db2.

#### **NOTE:- Question 4 contains Question 3 answer**

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

#### **Answers**

#### App.py

```
from flask importFlask, render_template, request, redirect, url_for, session
importibm_db
importre

app = Flask(__name__)

app.secret_key = 'a'

conn = ibm_db.connect(

"DATABASE=bludb;HOSTNAME=fbd88901-ebdb-4a4f-a32e-9822b9fb237b.c1ogj3sd0tgtu0lqde00.
databases.appdomain.cloud;PORT=32731;USERNAME=dtp46044;PASSWORD=95soX0sZGhb4To
Uj;SECURITY=SSL;SSLSERVERCERTIFICATE=DigiCertGlobalRootCA.crt;","","")

@app.route("/", methods=['GET', 'POST'])
def register():
    msg = "
    if request.method == 'POST':
        username = request.form['username']
```

```
email = request.form['email']
   password = request.form['password']
   sql="SELECT*FROM users WHERE username =?"
   stmt = ibm_db.prepare(conn, sql)
   ibm_db.bind_param(stmt,1,username)
   ibm_db.execute(stmt)
   account = ibm_db.fetch_assoc(stmt)
   print(account)
   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 = 'name must contain only characters and numbers!'
   else:
    insert_sql = "INSERT INTO users VALUES (?,?,?)"
    prep_stmt = ibm_db.prepare(conn,insert_sql)
    ibm_db.bind_param(prep_stmt, 1, username)
    ibm_db.bind_param(prep_stmt, 2, email)
    ibm_db.bind_param(prep_stmt, 3, password)
    ibm_db.execute(prep_stmt)
    msg = 'You have successfully registered!'
 elifrequest.method == 'POST':
   msg = 'Please fill out the form!'
 return render_template('register.html',msg=msg)
@app.route('/login', methods=['GET', 'POST'])
deflogin():
 global userid
 msg="
 ifrequest.method == 'POST':
   username = request.form['username']
   password = request.form['password']
   sql="SELECT*FROM users WHERE username =? AND password=?"
   stmt = ibm_db.prepare(conn, sql)
   ibm_db.bind_param(stmt,1,username)
   ibm_db.bind_param(stmt,2,password)
   ibm_db.execute(stmt)
   account = ibm_db.fetch_assoc(stmt)
   print(account)
   if account:
    session['loggedin'] = True
    session['id'] = account['USERNAME']
    userid = account['USERNAME']
    session['username'] = account['USERNAME']
    msg = 'Logged in successfully!'
```

```
msg = 'Logged in successfully!'
    return render_template('dashboard.html', msg=msg)
   else:
    msg = 'Incorrect username / password!'
 return render_template('login.html', msg=msg)
if__name__ == '__main__':
 app.run(host='0.0.0.0')
 #app.run(debug=True)
```

## Register.html

```
<!DOCTYPEhtml>
<htmllang="en">
<head>
 <meta charset="UTF-8">
 <meta http-equiv="X-UA-Compatible" content="IE=edge">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Smart Fashion register</title>
 <!-bootstrap css cdn->
 krel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
integrity="sha384-JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9U
J0Z" crossorigin="anonymous">
 krel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.css">
 <!-css stylesheet ->
 krel="stylesheet"href="/static/css/style.css">
 <!-font styles cdn-->
 krel="preconnect" href="https://fonts.gstatic.com">
 <linkhref="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"rel="stylesheet">
 <linkhref="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"</pre>
rel="stylesheet">
</head>
<body>
 <!-bootstrap navbar ->
 <!-navbarends->
 <!-Login form->
 <div class="login text-center mt-5">
   <form action="/" method="post">
```

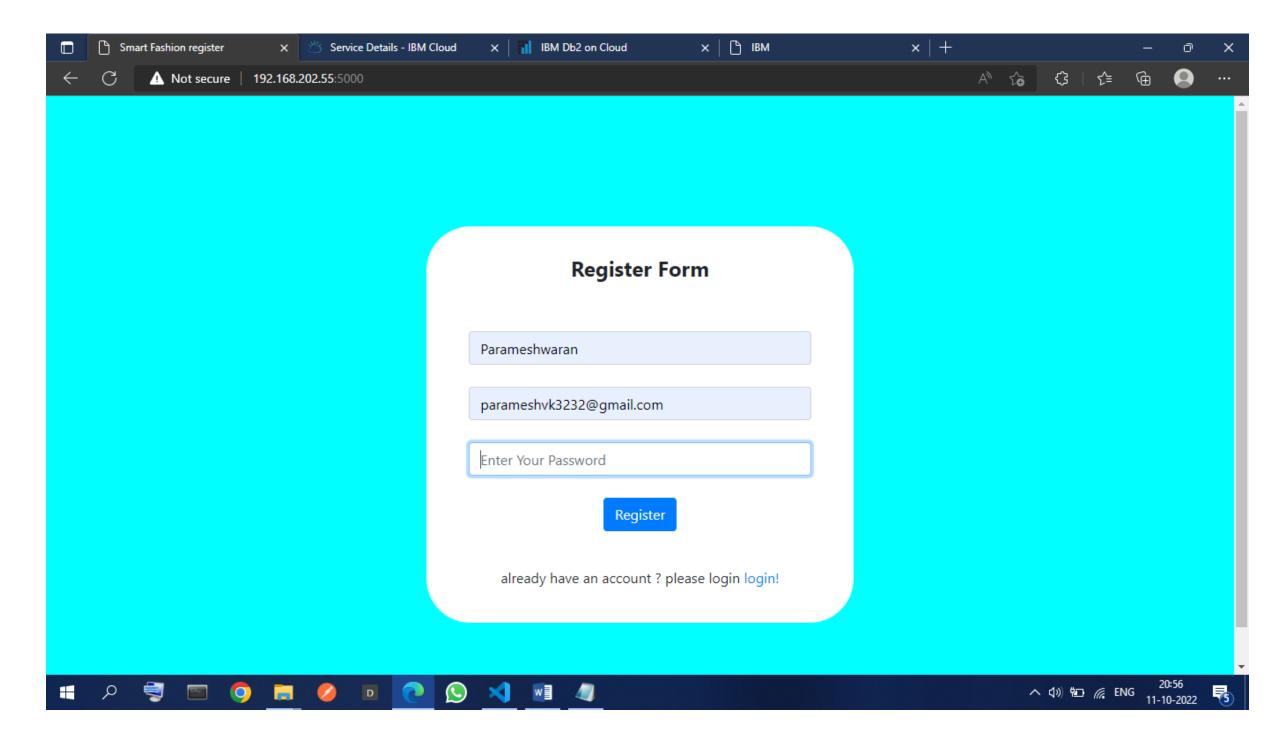
```
<h2class="form-text-h2"> Register Form </h2>
     <divclass="msg">{{msg}}</div>
     <input type="text" class="form-control" name="username" placeholder="Enter Your Username"</pre>
id="username"
      required>
     <input type="email" class="form-control" name="email" placeholder="Enter Your Email ID"</pre>
id="email" required>
    <input type="password"class="form-control"name="password"placeholder="EnterYour</pre>
Password"id="password"
      required>
     <button type="submit" id="button" class="btnbtn-primary"> Register </button>
     <div class="note mt-3 text-center">
      <!-Registerform-->
      already have an account?please login < a href="/login">login!</a> 
    </div>
   </form>
 </div>
</body>
</html>
```

### Login.html

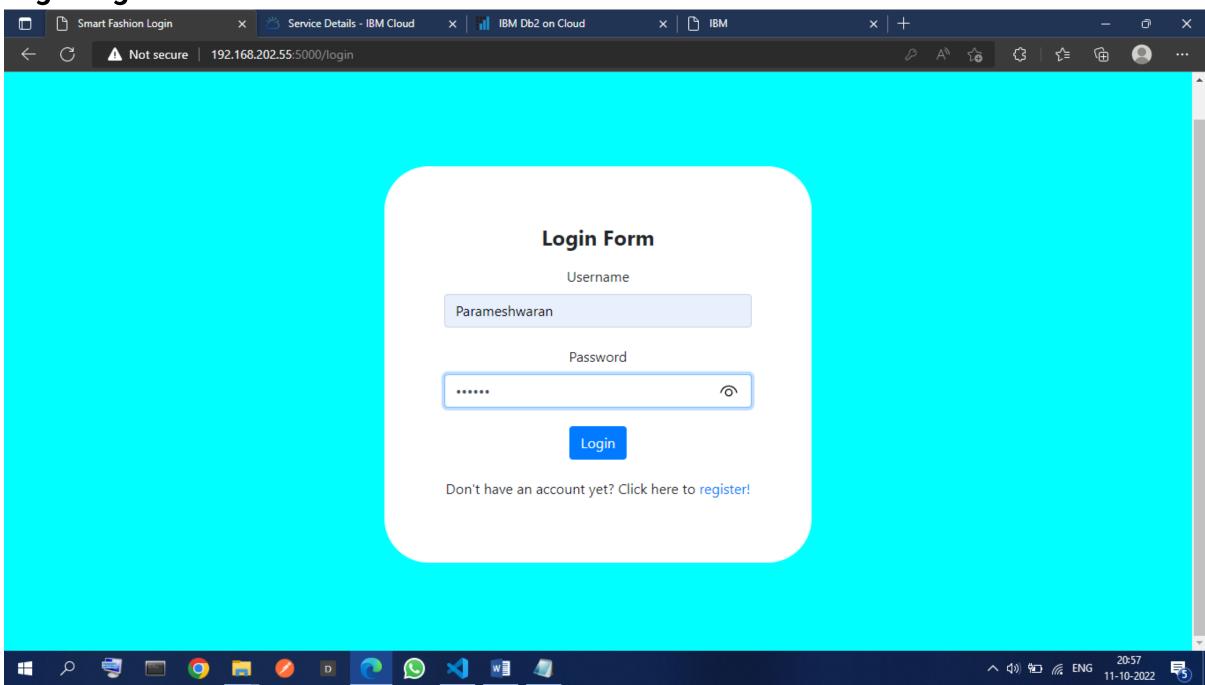
```
<!DOCTYPEhtml>
<htmllang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Smart Fashion Login</title>
  <!-favicon-->
  <!--<li>!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--!--</
  <!--<li>!--!ink rel="icon" href="/assets/img/favicon.ico" type="image/x-icon">-->
  <linkrel="icon"type="image/png"sizes="16x16"href="/assets/img/favicon-32x32.png">
  <!-bootstrap css cdn->
  krel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
integrity="sha384-JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9U
J0Z" crossorigin="anonymous">
  krel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.css">
  <!-css stylesheet ->
  <linkrel="stylesheet"href="/static/css/style2.css">
```

```
<!-font styles cdn-->
 krel="preconnect" href="https://fonts.gstatic.com">
 <linkhref="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"rel="stylesheet">
 khref="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
</head>
<body>
 <div class="login text-center mt-5">
   <form action="/login" method="post">
    <h2class="form-text-h2"> Login Form </h2>
    <divclass="msg">{{msg}}</div>
    <divclass="form-group mb-3">
      <label class="label" for="username">Username</label>
      <input type="text"class="form-control"placeholder="Username"name="username"required>
    </div>
    <divclass="form-group mb-3">
      <label class="label" for="password">Password</label>
      <input type="password"class="form-control"placeholder="Password"name="password"</pre>
required>
    </div>
    <button type="submit" id="button" class="btnbtn-primary"> Login </button>
    <div class="note mt-3 text-center">
      <!-Registerform-->
      >Don't have an account yet? Click here to <a href="/">register!</a>
    </div>
   </form>
 </div>
</body>
</html>
Style.css
 margin: 0;
 padding: 0;
body{
 background-color: aqua!important;
 display: flex;
 flex-direction: column;
 align-items: center;
```

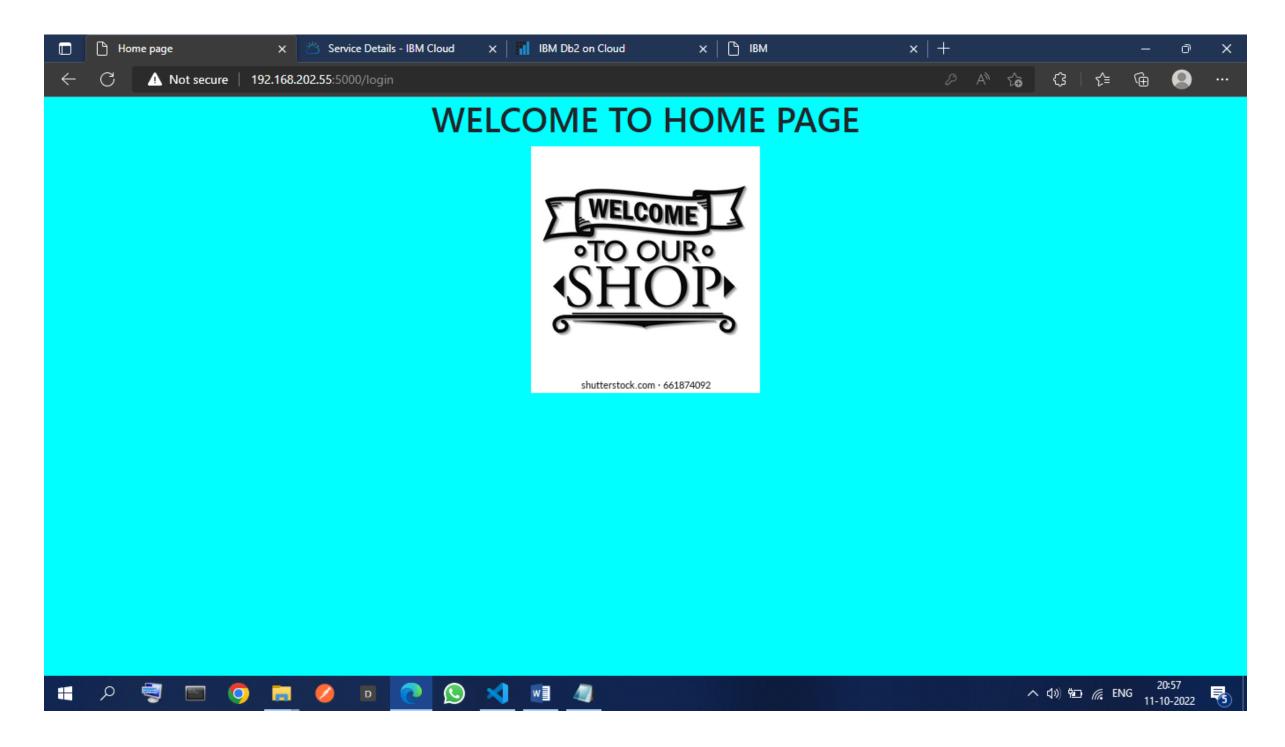
```
justify-content: center;
form{
 display: flex;
 flex-direction: column;
 align-items: center;
 justify-content: center;
 background-color: white;
 width: 40%;
 height: 450px;
 border-radius: 50px;
 margin: 100px;
 gap: 25px;
h2 {
 font-size: large;
 font-weight: bolder;
input {
 width: 80%!important;
div{
 display: flex;
 align-items: center;
 justify-content: center;
 flex-direction: column;
 width:90%;
.form-text-vk{
 font-size: small;
 padding-bottom: 10px;
.form-text-h2{
 font-size: x-large;
 padding-top:10px;
```



# **Login Page:-**



Welcome Page:-



# **Data Base Table:-**

