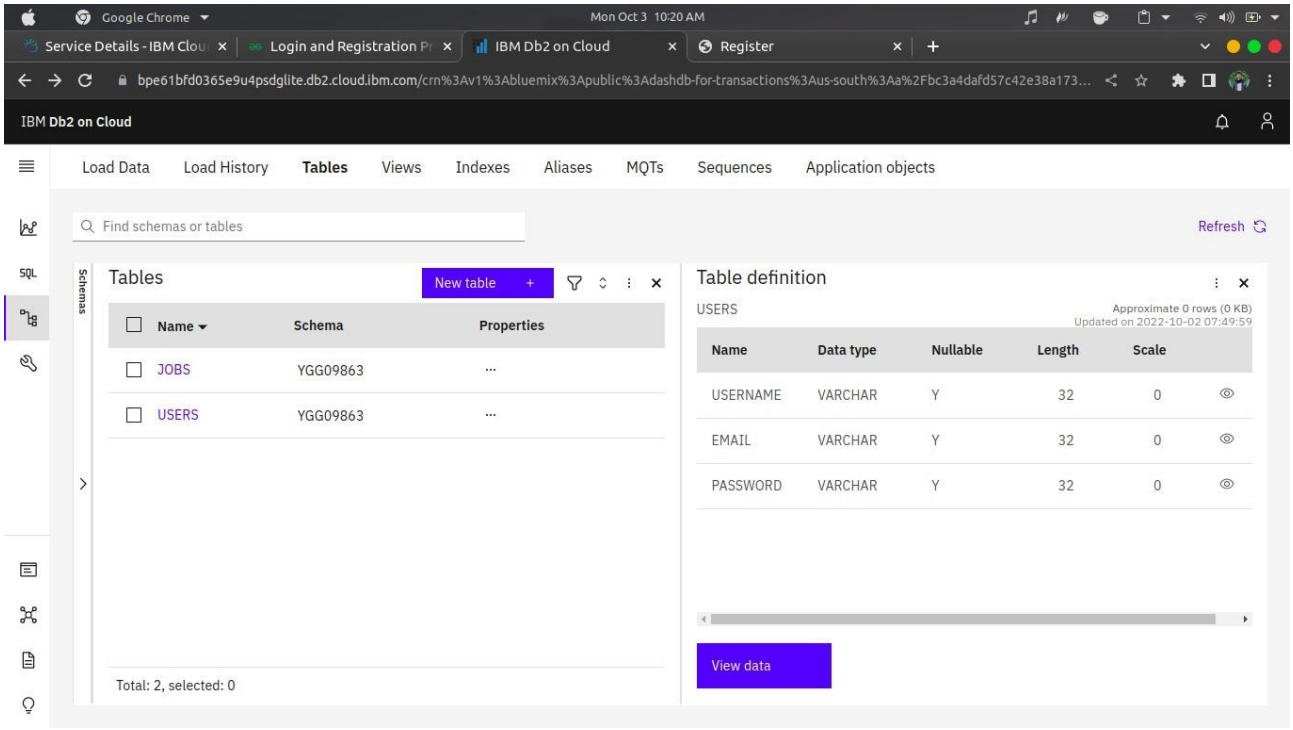
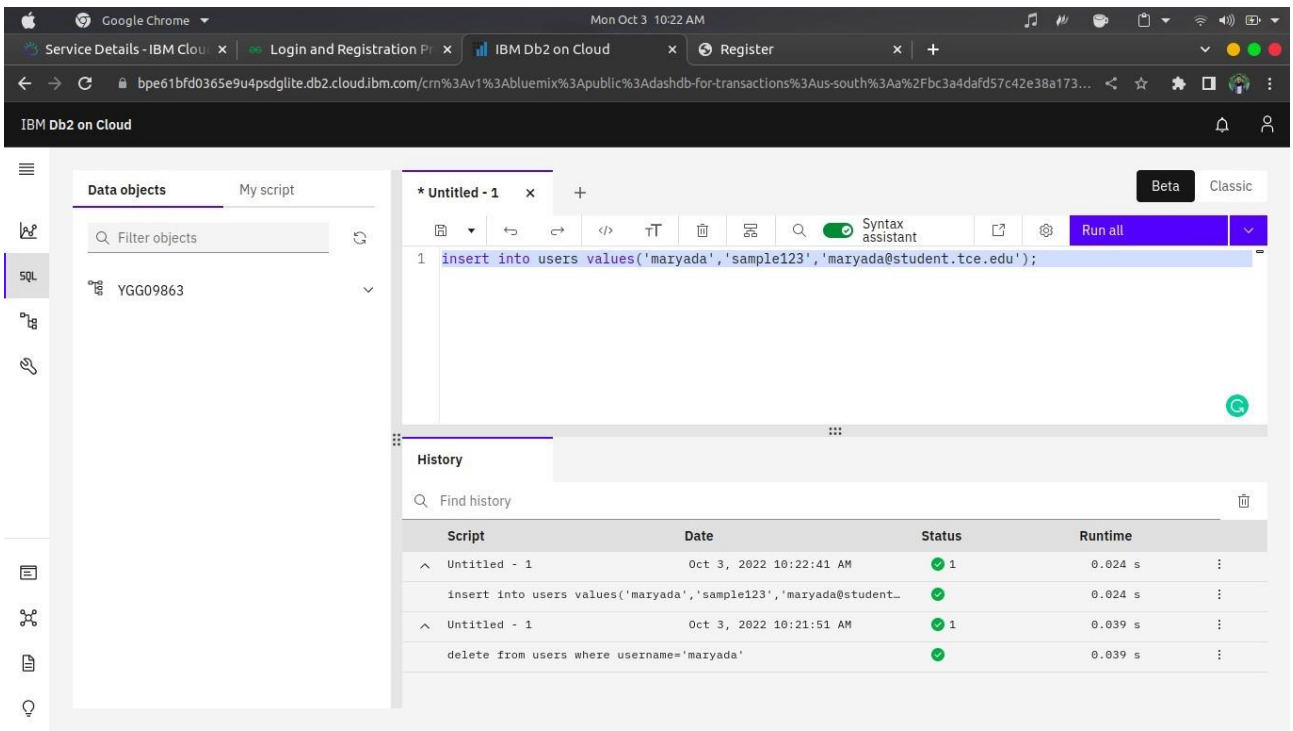
Assignment -2

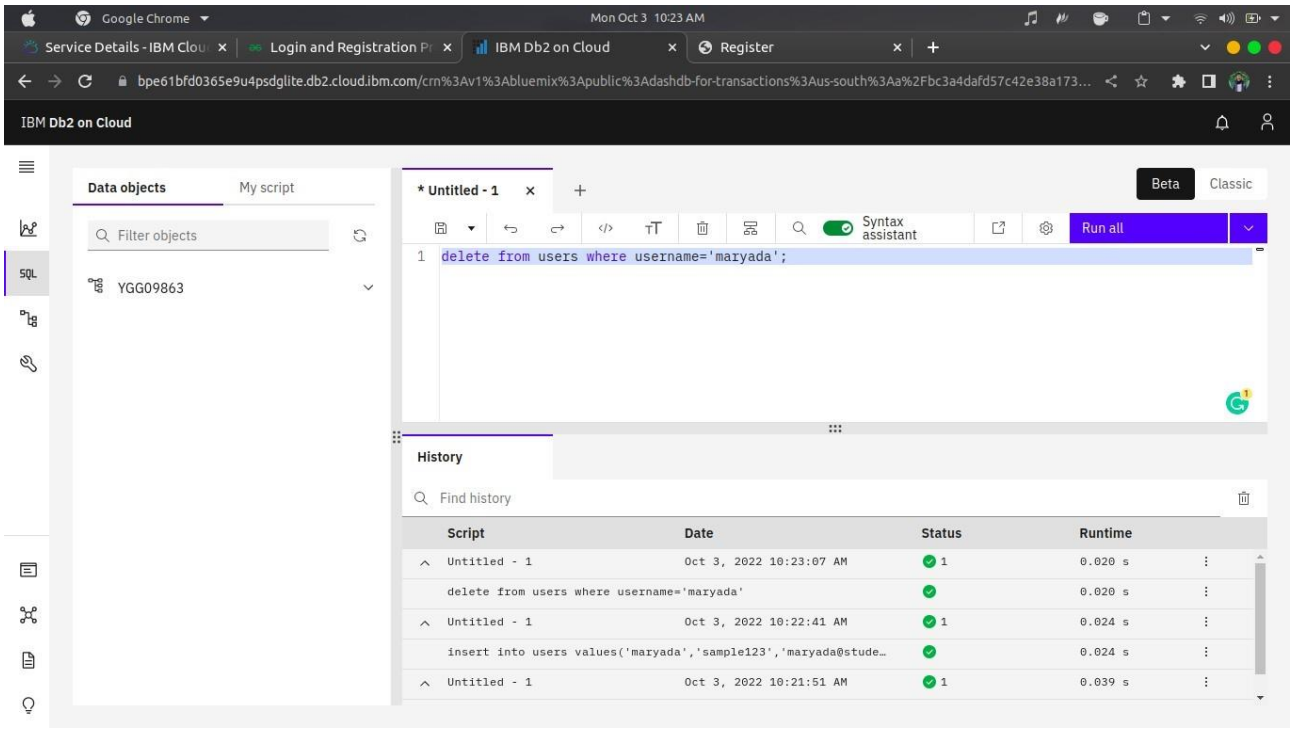
Assignment Date	1 October 2022
Student Name	MOHAMMED ATHANAN M
Student Roll Number	73771914137
Maximum Marks	2 Marks

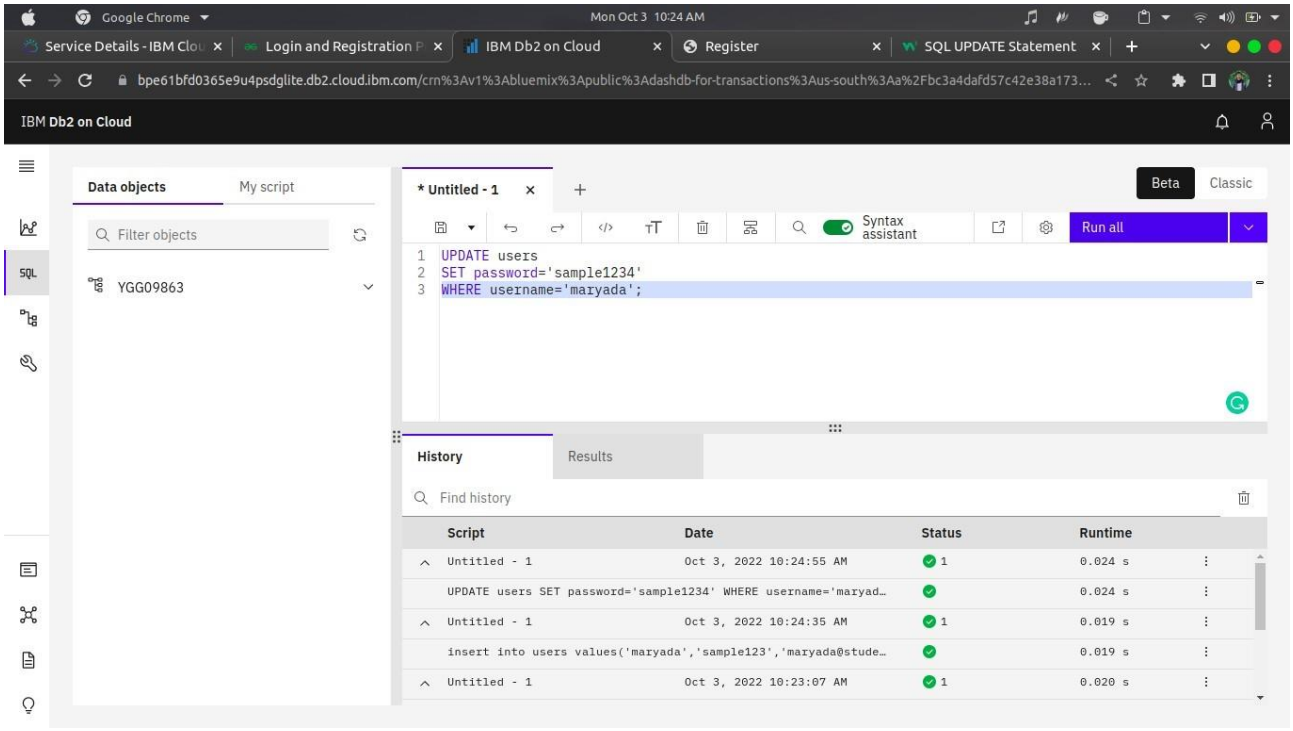
1. Create User table with user with email,usernameand password.



2. Perform UPDATE,DELETE Queries with user table







3. Connect python code to db2. (Done in question 4)

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 **app.py:**

```
#!/usr/bin/env python3
# -*- coding: utf-8 -*-
"""
Created on Sun Oct  2 12:32:54 2022

@author: maryada
"""

from flask import
Flask,redirect,request,render_template,url_for,session import ibm_db
import re

app=Flask(__name__)
app.secret_key='a'
conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=9938aec0-8105-433e-8bf9-
0fbb7e483086.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32459;Security=SSL;SSL
ServerCertificate=DigiCertGlobalRootCA.crt;UID=ygg09863;PWD=dQXLECjtaCqXsJUt;","","")

@app.route('/')
@app.route('/login',methods=['GET','POST'])
def login():    global userid;
   msg=" "

   if request.method == 'POST' and 'username' in request.form and 'password' in request.form:
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!"           return
render_template("index.html", msg=msg)       else :
         msg="Incorrect username and 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']        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 = 'Username must contain only characters and numbers !'
elif not username or not password or not email:
         msg = 'Please fill out the form !'
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 logged in!"

   elif request.method=="POST":        msg="Please
fill out the form"     return
render_template('register.html', msg=msg)

if __name__=="__main__":
   app.run(host='0.0.0.0')
```

templates folder:
index.html

```
<!-- Store this code in 'index.html' file inside the 'templates' folder-->

<html>
          <head>
```

```
		<meta charset="UTF-8">
		<title> Index </title>
		<link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">

	</head>
	<body></br></br></br></br></br>
		<div align="center">
		<div align="center" class="border">
			<div class="header">
				<h1 class="word">Index</h1>
			</div></br></br></br>
				<h1 class="bottom">
					Hi {{session.username}}!!</br></br> Welcome to the index
page...
				</h1></br></br></br>
				<a href="{{ url_for('logout') }}" class="btn">Logout</a> </div>
		</div>
	</body>
</html>
```

login.html:

```
<!-- Store this code in 'login.html' file inside the 'templates' folder -->

<html>
	<head>
		<meta charset="UTF-8">
		<title> Login </title>
		<link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}"> </head>
	<body></br></br></br></br></br>
		<div align="center">
		<div align="center" class="border">
			<div class="header">
				<h1 class="word">Login</h1>
			</div></br></br></br>
			<h2 class="word">
				<form action="{{ url_for('login') }}" method="post">
				  <div class="msg">{{ msg }}</div>
					<input id="username" name="username" type="text"
placeholder="Enter Your Username" class="textbox"/></br></br>
				<input id="password" name="password" type="password"
placeholder="Enter Your Password" class="textbox"/></br></br></br>
					<input type="submit" class="btn" value="Sign In"></br></br>
				</form>
			</h2>
			<p class="bottom">Don't have an account? <a class="bottom"
```

```
href="{{url_for('register')}}"> Sign Up here</a></p>
                </div>
                </div>
        </body>
</html>
```

register.html:

```
<!-- Store this code in 'register.html' file inside the 'templates' folder -->

<html>
        <head>
                <meta charset="UTF-8">
                <title> Register </title>
                <link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}"> </head>
        <body></br></br></br></br></br>
                <div align="center">
                <div align="center" class="border">
                        <div class="header">
                                <h1 class="word">Register</h1>
                        </div></br></br></br>
                        <h2 class="word">
                                <form action="{{ url_for('register') }}" method="post">
                                  <div class="msg">{{ msg }}</div>
                                        <input id="username" name="username" type="text"
placeholder="Enter Your Username" class="textbox"/></br></br>
                                         <input id="password" name="password" type="password"
placeholder="Enter Your Password" class="textbox"/></br></br>
                                          <input id="email" name="email" type="text"
placeholder="Enter Your Email ID" class="textbox"/></br></br>
                                          <input type="submit" class="btn" value="Sign Up"></br>
                                </form>
                        </h2>
                        <p class="bottom">Already have an account? <a class="bottom"
href="{{url_for('login')}}"> Sign In here</a></p>
                </div>
                </div>
        </body>
</html>
```

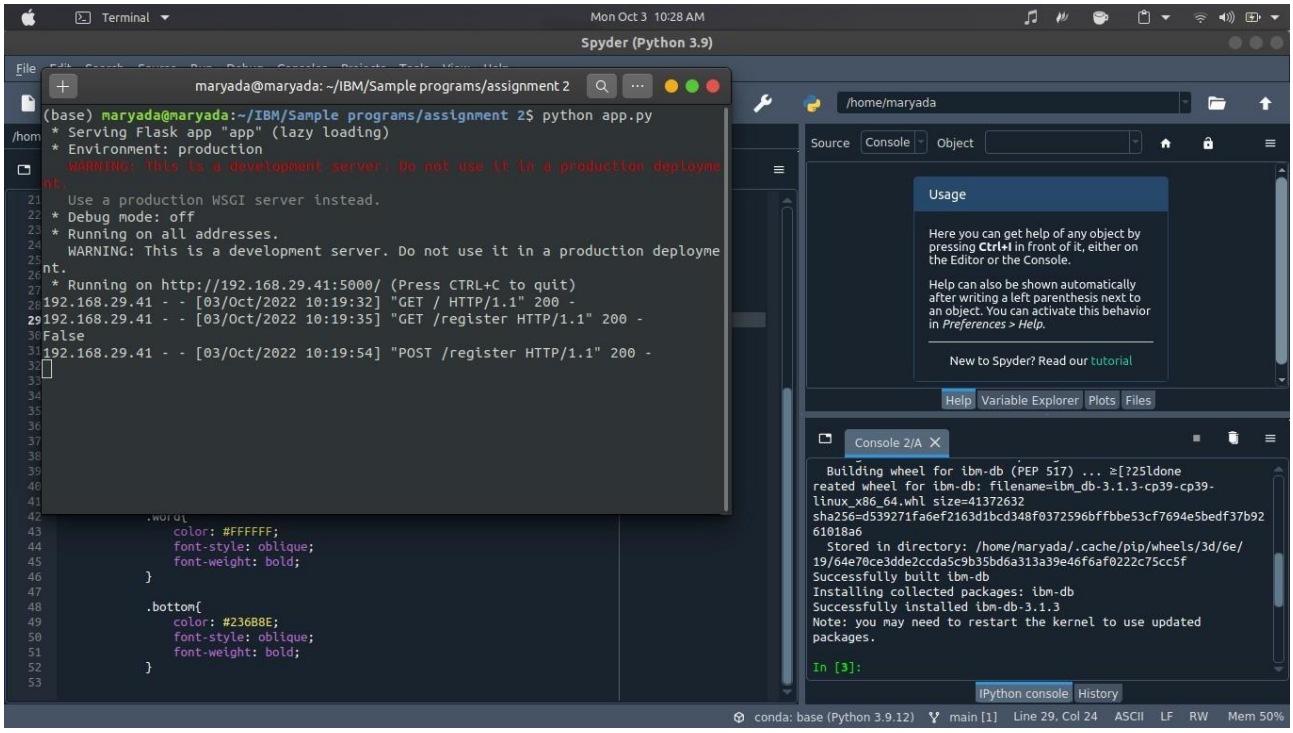
static folder:
style.css

```
/* Store this code in 'style.css' file inside the 'static' folder*/
```

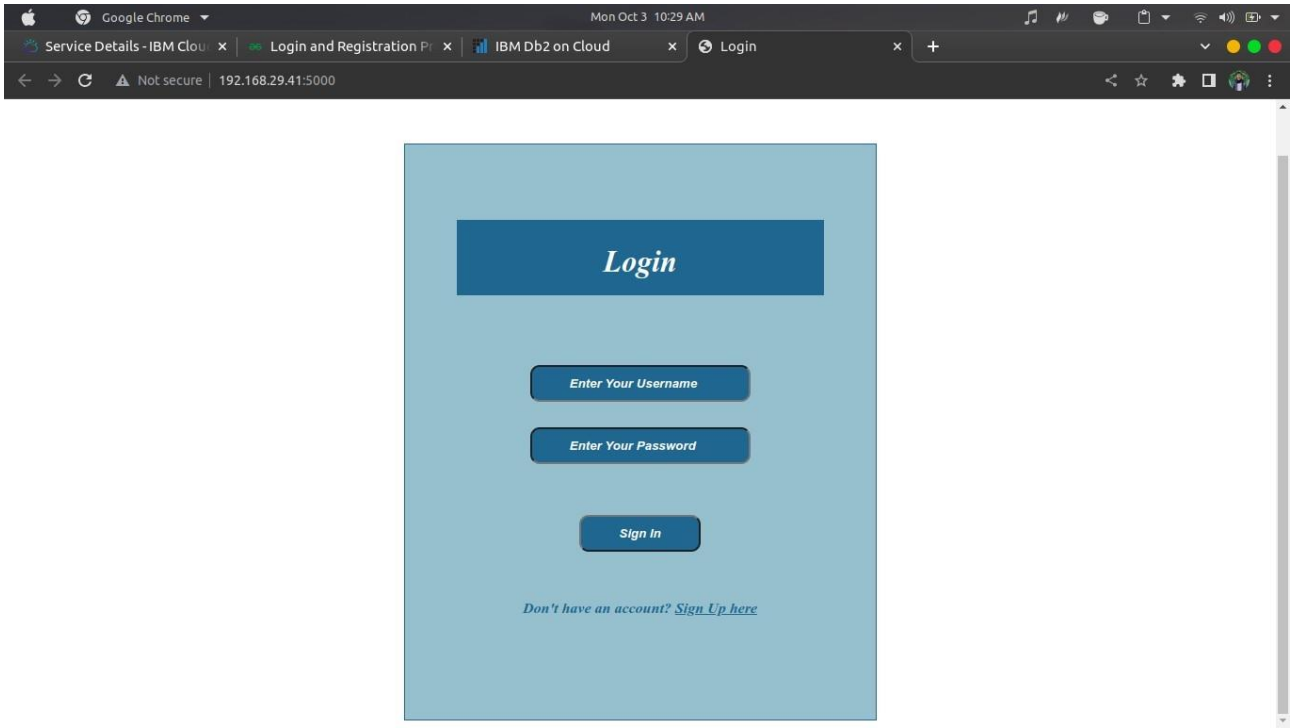
```
.header{ padding: 5px
        120px; width:
        150px; height:
        70px;
        background-color: #236B8E;
}

.border{ padding: 80px 50px; width:
        400px; height: 450px; border:
        1px solid #236B8E; border-
        radius: 0px; background-
        color: #9AC0CD;
}

.btn { padding: 10px 40px;
        background-color: #236B8E;
        color: #FFFFFF; font-style:
        oblique; font-weight:
        bold;
        border-radius: 10px;
}

.textbox{ padding: 10px 40px;
        background-color: #236B8E;
        text-color: #FFFFFF;
        border-radius: 10px;
}

::placeholder { color:
        #FFFFFF; opacity:
        1; font-style:
        oblique;
        font-weight: bold;
}

.word{ color: #FFFFFF;
        font-style:
        oblique;
        font-weight: bold;
}

.bottom{ color: #236B8E;
        font-style:
        oblique; font-
        weight: bold;
}
```

Output:

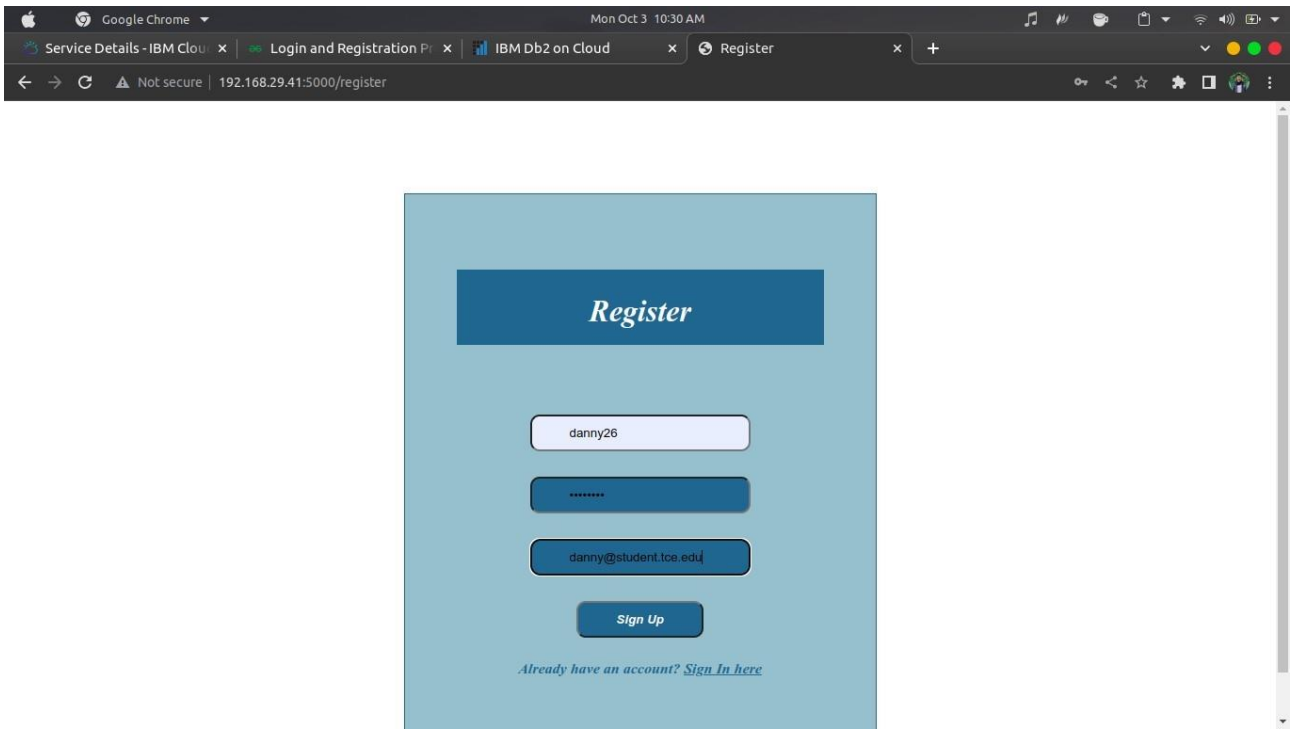
Start the application:

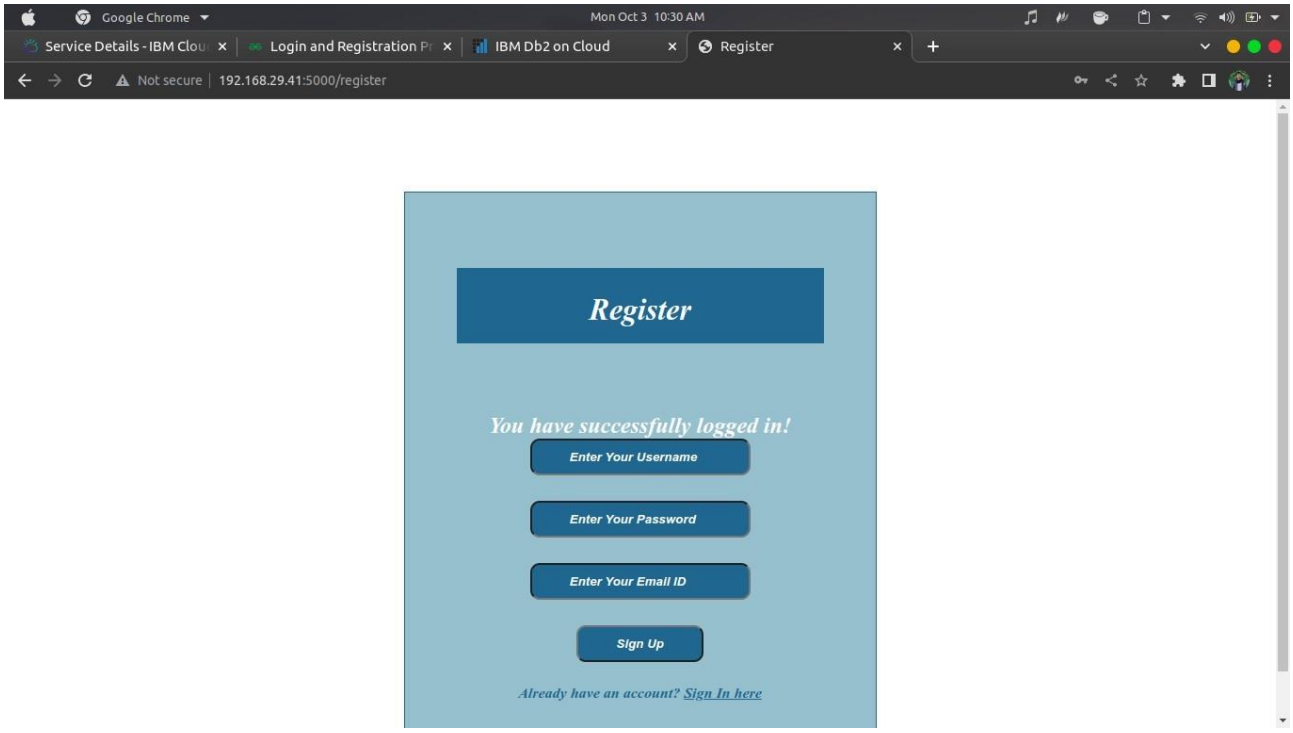


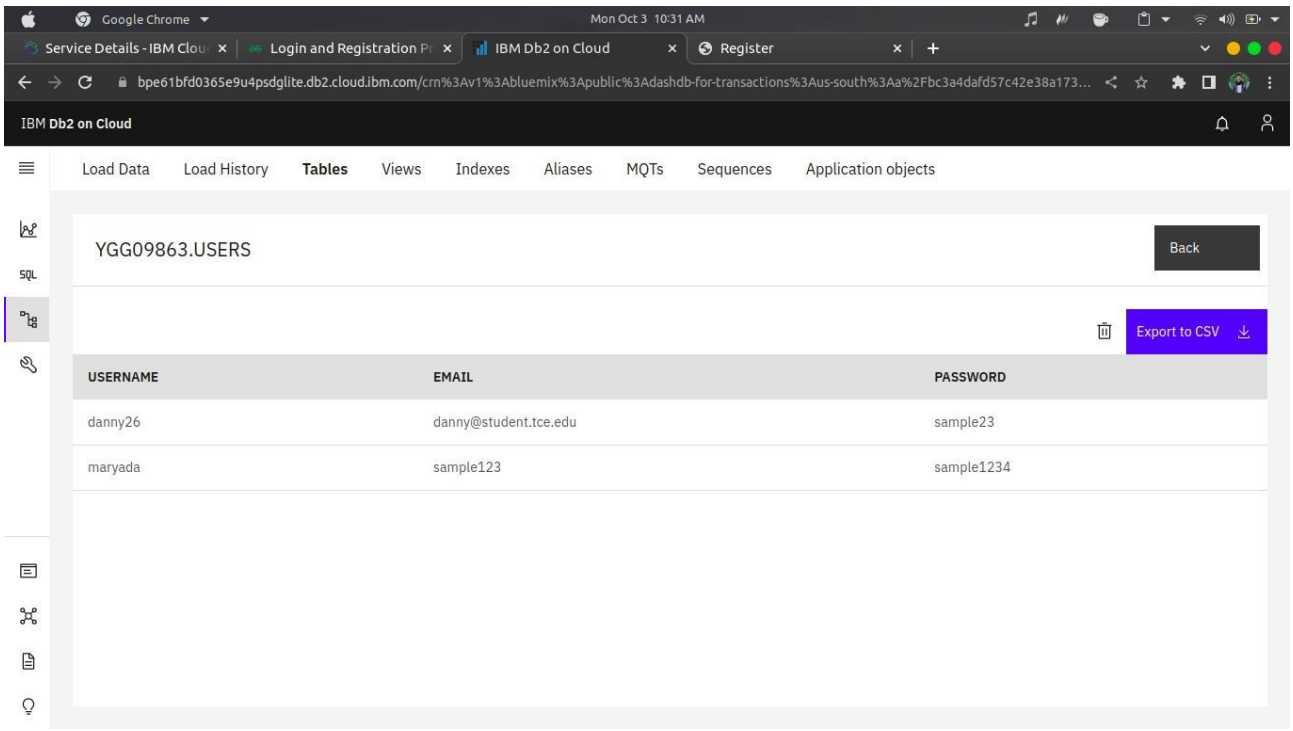
We are invited with login page.



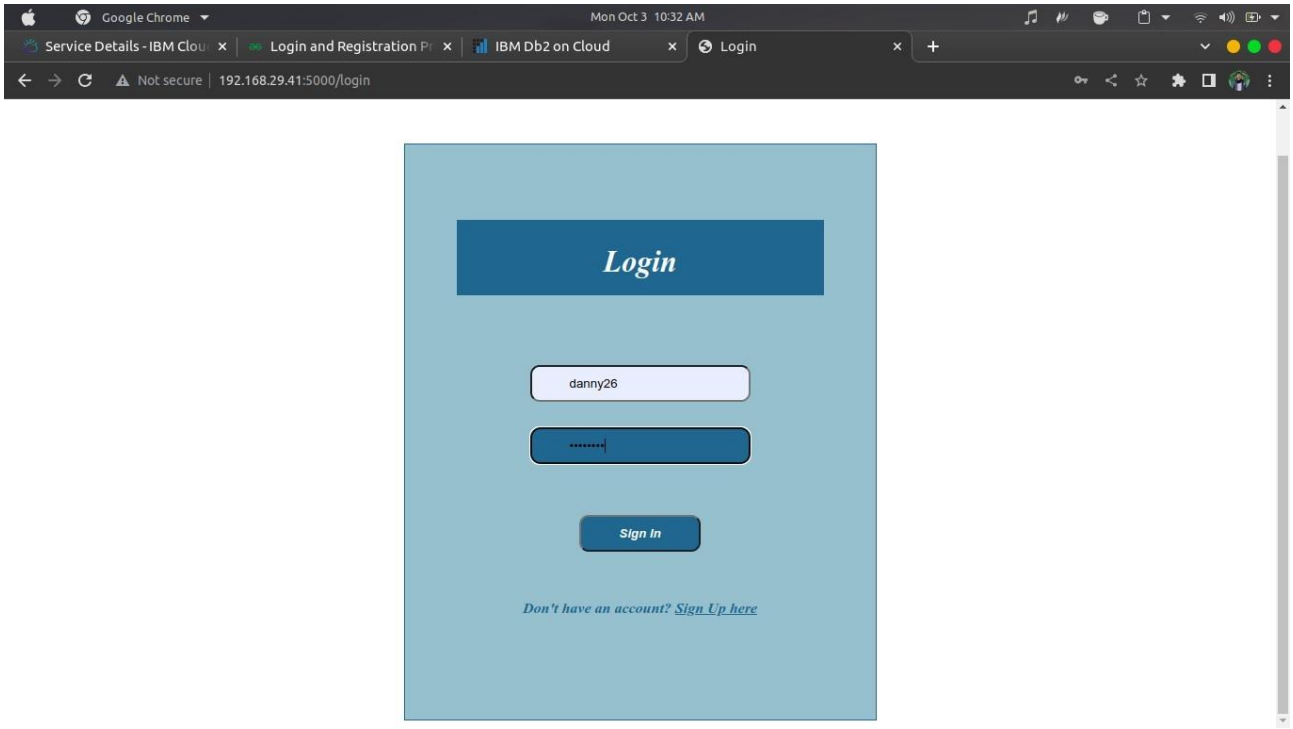
Registration:

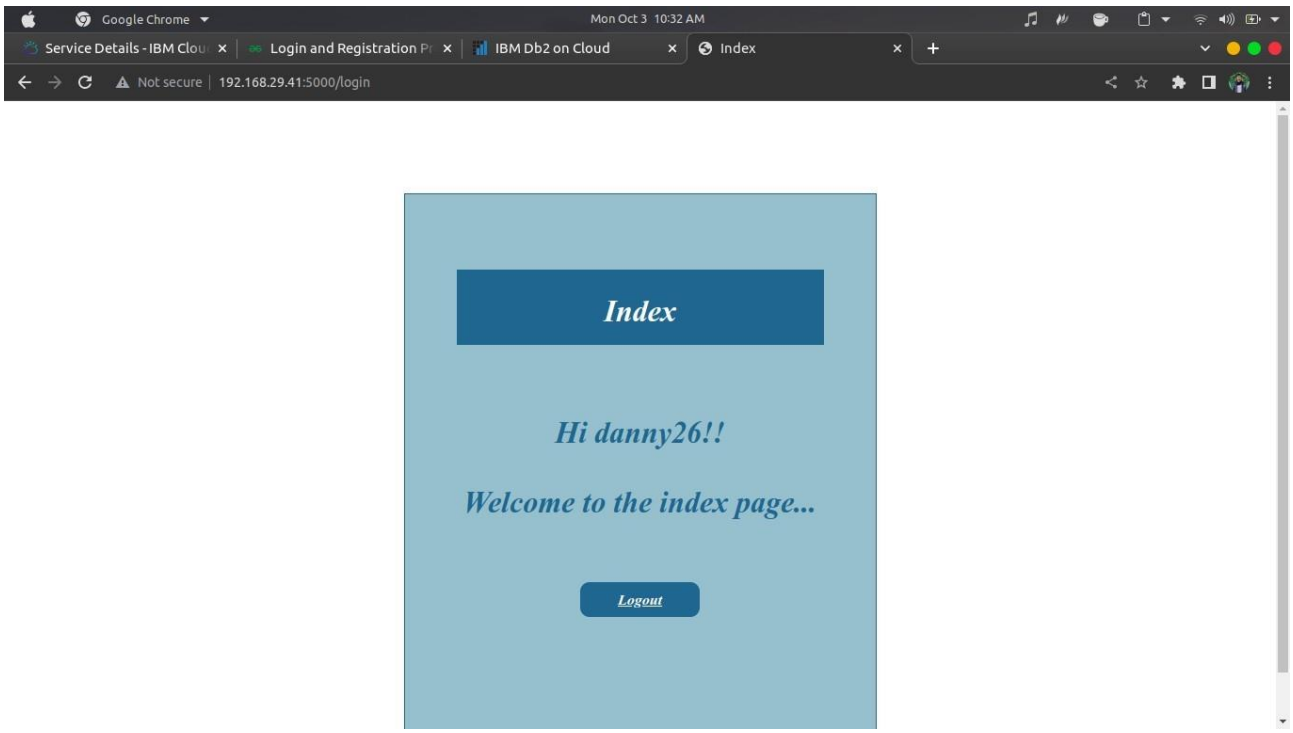

Google Chrome
Mon Oct 3 10:30 AM
Service Details - IBM Clou
Login and Registration Pr
IBM Db2 on Cloud
Register
Not secure
192.168.29.41:5000/register
Register
danny26
danny@student.tce.edu
Sign Up
Already have an account? Sign In here


Google Chrome
Mon Oct 3 10:30 AM
Service Details - IBM Clou
Login and Registration Pr
IBM Db2 on Cloud
Register
Not secure
192.168.29.41:5000/register
Register
You have successfully logged in!
Enter Your Username
Enter Your Password
Enter Your Email ID
Sign Up
Already have an account? Sign In here

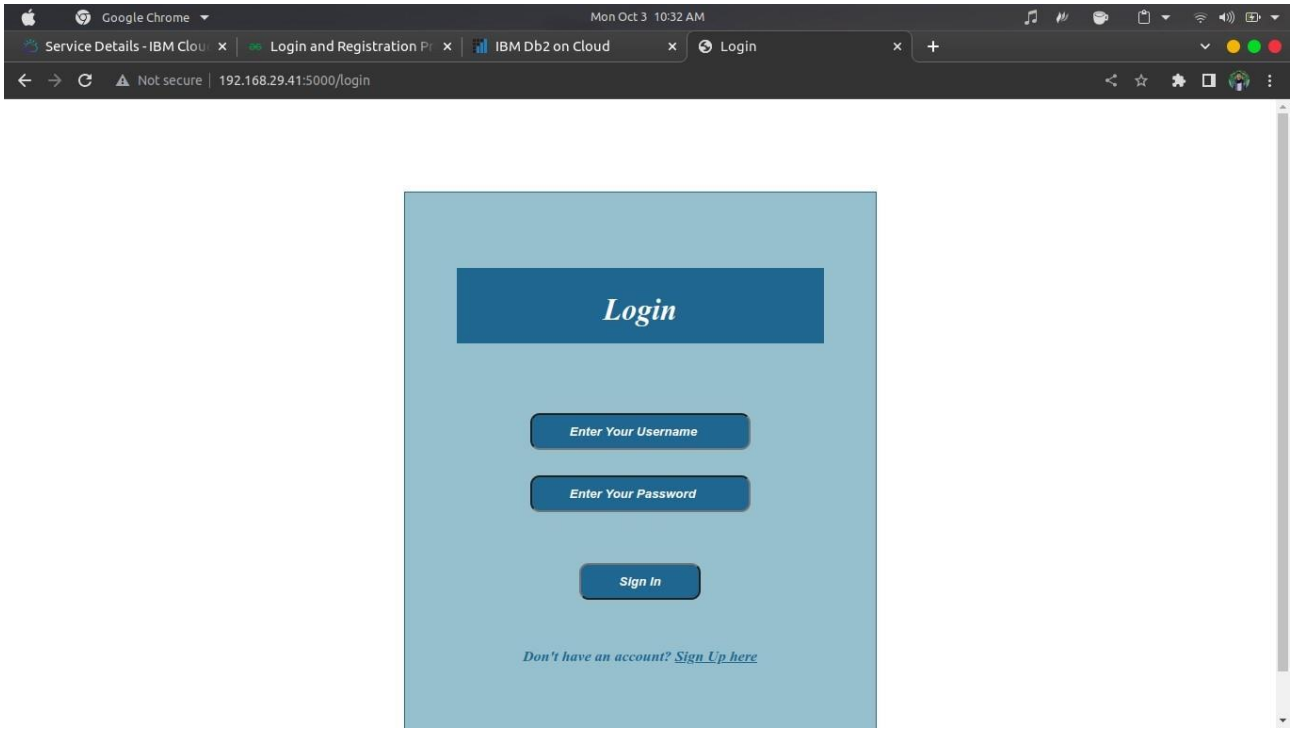


Login and Logout:




Google Chrome
Mon Oct 3 10:32 AM
Service Details - IBM Clou
Login and Registration Pr
IBM Db2 on Cloud
Index
Not secure
192.168.29.41:5000/login
Index
Hi danny26!!
Welcome to the index page...
Logout

Logout:


Google Chrome
Mon Oct 3 10:32 AM
Service Details - IBM Clou
Login and Registration Pr
IBM Db2 on Cloud
Login
Not secure
192.168.29.41:5000/login
Login
Enter Your Username
Enter Your Password
Sign In
Don't have an account? Sign Up here