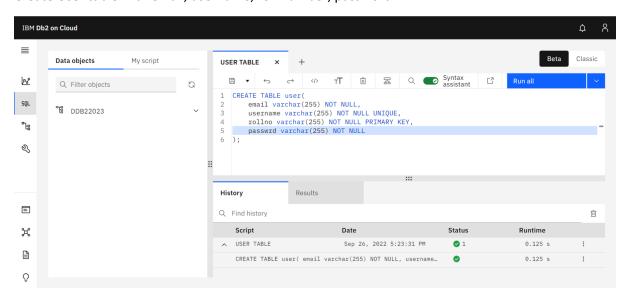
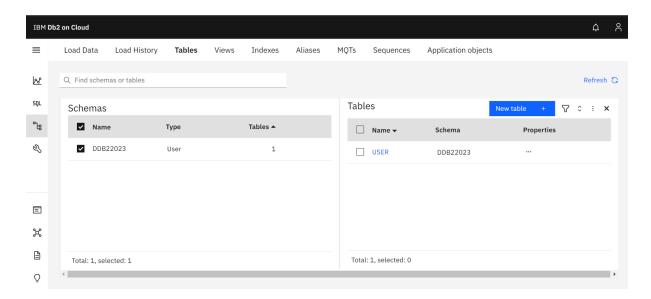
ASSIGNMENT -2 FLASK APPLICATION INTEGRATION WITH DB2

Assignment Date	26 September 2022
Student Name	Samreen Ayesha. S
Student Roll Number	2019103055
Maximum Marks	2 Marks

Question-1:

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

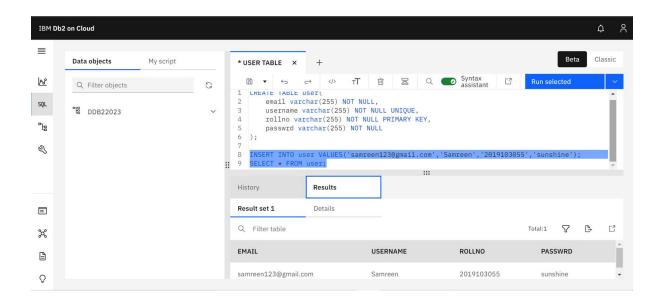


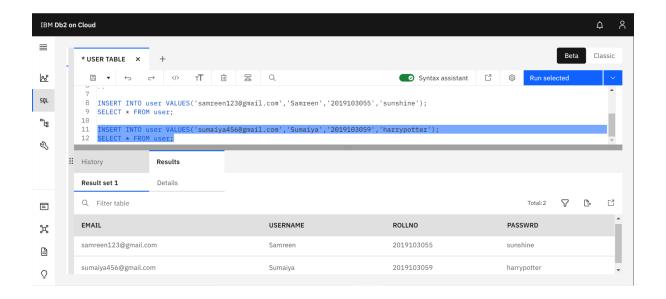


Question-2:

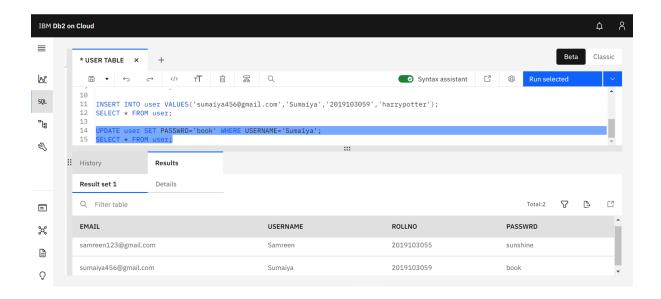
Perform UPDATE, DELETE queries with user table.

INSERT:

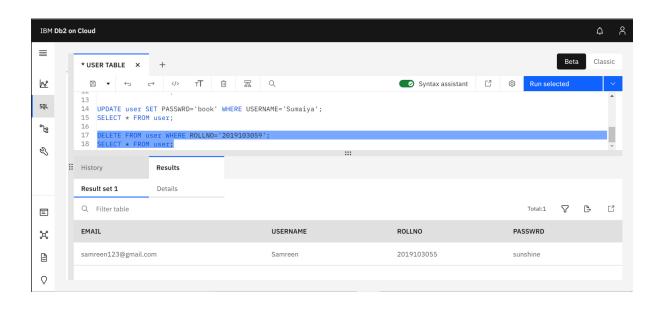


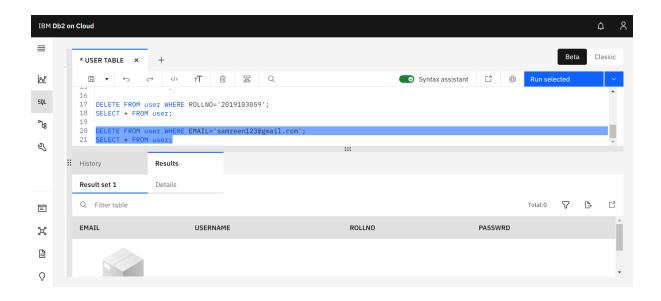


UPDATE:



DELETE:





Question-3:

Connect python code to db2.

Syntax:

 $ibm_db.connect ("DATABASE=bludb; HOSTNAME=19af6446-6171-4641-8aba-9dcff8e1b6ff.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud; PORT=30699; PROTOCOL=TCPIP; UID=ddb22023; PWD=pm6CGacdO7nzi3pU; SECURITY=SSL; SSLServerCertificate=DigiCertGlobalRootCA.crt; ", "", "")$

Question-4:

Create a flask app with registration page, login page and welcome page. By default, the registration page loads. Once the user enters all the fields store the data in database and navigate to login page to authenticate the user. If user is valid show welcome page

Program:

App.py:

```
from flask import Flask,render_template,request,flash
  import ibm db
 app = Flask(__name__)
  def connection():
         conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=19af6446-6171-4641-8aba-9dcff8e1b6ff.clogj3sd0tgtu0lqde00.databa
         print("CONNECTED TO DATABASE")
         print("CONNECTION FAILED")
 @app.route("/",methods=["GET","POST"])
  def registerPage():
     if request.method=="POST":
         conn=connection()
             sql="INSERT INTO USER VALUES('{}','{}','{}','{}')".format(request.form["uemail"],request.form["uname"],re
             ibm_db.exec_immediate(conn,sql)
             flash("Successfully Registered"
             return render_template('login.html')
             flash("Account already exists")
return render_template('register.html')
         return render_template('register.html')
 @app.route("/login",methods=["GET","POST"])
def loginPage():
    if request.method=="POST":
        conn=connection()
        username=request.form["luname"]
        password=request.form["lupass"]
        stmt=ibm_db.prepare(conn,sql)
         ibm_db.bind_param(stmt,1,username)
        ibm_db.bind_param(stmt,2,password)
        ibm_db.execute(stmt)
         res=ibm_db.fetch_assoc(stmt)
        if res['1']==1:
             return render_template("Welcome.html")
             flash("Wrong Username or Password")
             return render_template('login.html')
        return render_template('login.html')
if __name__=='__main__':
    app.config['SECRET_KEY']='super secret key'
    app.config['SESSION_TYPE']='filesystem'
    app.run(debug=True)
```

TEMPLATES FOLDER:

Register.html:

```
<!DOCTYPE html>
<html lang="en">
    <head>
       <title>Register Page</title>
       <link rel="stylesheet" href="../static/styles.css">
           function loadLoginPage(){
               window.location.assign("http://localhost:5000/login");
        <div id="Header"><h2>REGISTRATION PORTAL</h2></div>
       <form action="http://localhost:5000/" method="post">
           <label for="ele1">Email ID:</label>
           <input type="email" name="uemail" id="ele1"><br><br></pr>
           <label for="ele2">User Name:</label>
           <input type="text" name="uname" id="ele2"><br><br>
           <label for="ele3">Password:</label>
           <input type="password" name="upass" id="ele3"><br><br><<br/>br>
           <label for="ele4">Roll Number:</label>
           <input type="text" name="urollno" id="ele4"><br><br>
            <div id="button"><input type="submit" value="Submit"></div>
           <button type="button" onclick="loadLoginPage();">LOGIN</button>
```

Login.html:

Welcome.html:

STATIC FOLDER:

Styles.css:

```
html{
min-height: 100%;
min-width: 100%;
background: linear-gradient(to bottom, #33ccff 0%, #66ff99 100%);

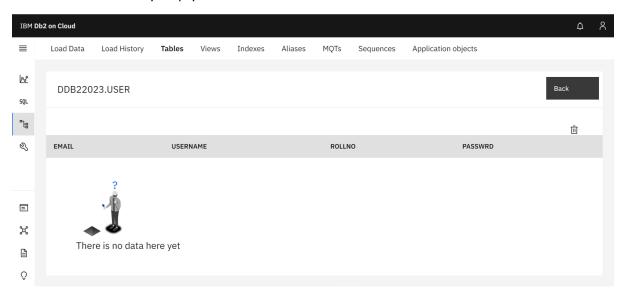
#frm{
background: □rgba(5, 87, 120, 0.24);
color: □black;
max-width: 25%;
margin: auto;
padding: 50px;
border-style: solid;
border-width: 2px;
border-color: □black;

#Header{
text-align: center;
}

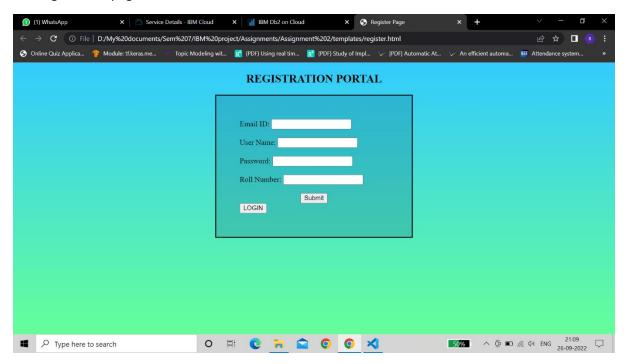
#button{
display: flex;
justify-content: center;
align-items: center;
}
```

EXECUTION:

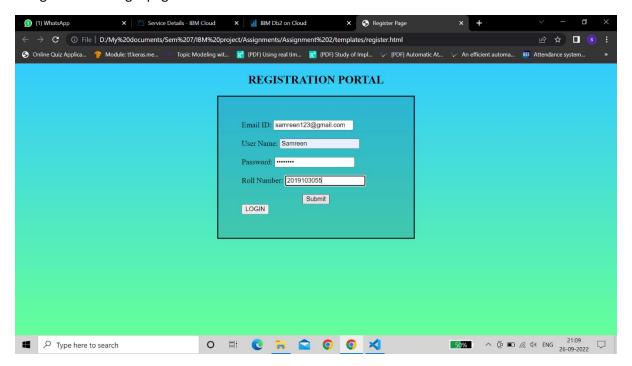
The user table is initially empty

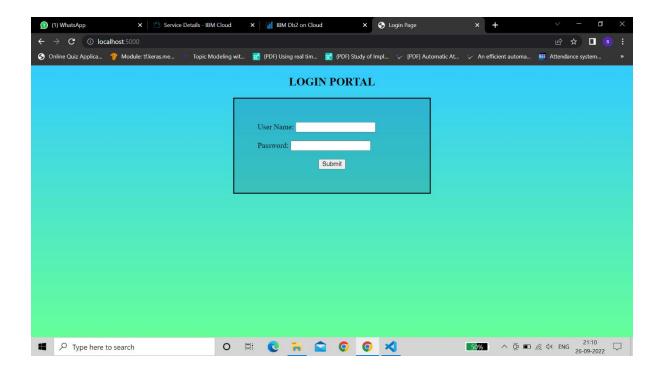


The registration page

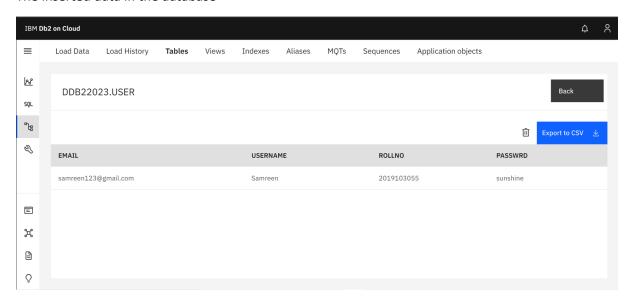


The registration details are filled and on submitting, the data is entered into the database and it navigates to the login page for authentication.

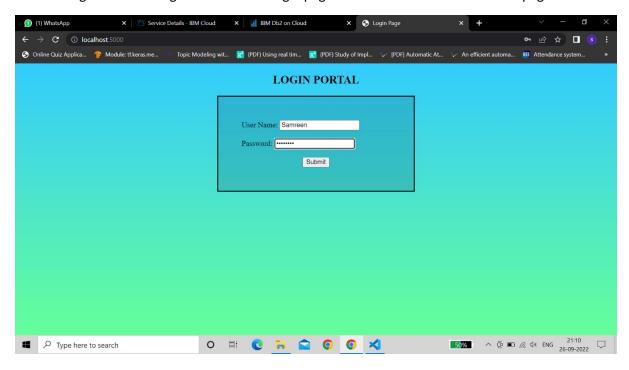


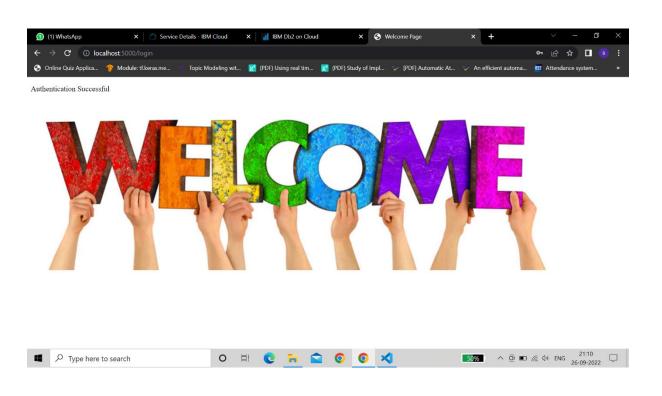


The inserted data in the database

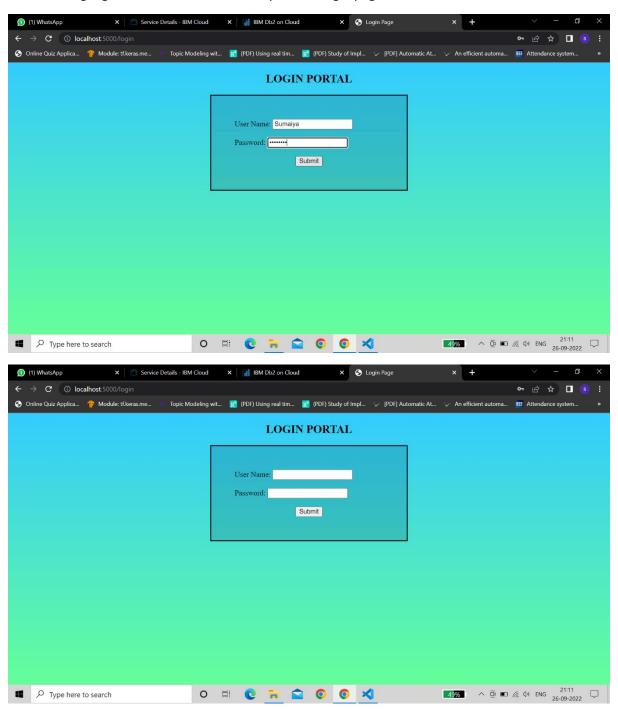


On entering the correct login details in the login page it is redirected to the welcome page





Incase wrong login details are entered it stays in the login page



The server terminal:

