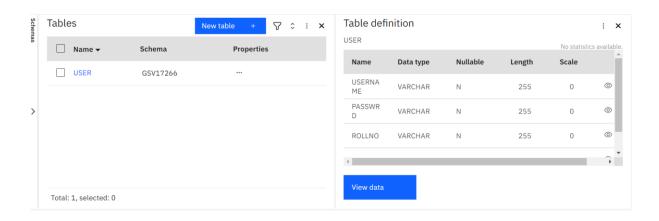
ASSIGNMENT -2 FLASK APPLICATION INTEGRATION WITH DB2

Assignment Date	26 September 2022
Student Name	Jumana Begum J
Student Roll Number	2019103022
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:

Q Find history

	Script	Date	Status	Runtime	
^	ass2-create table	Sep 30, 2022 10:21:33 AM	② 1	0.012 s	÷
	insert into user values('samr	reen','123','2019103022','	•	0.012 s	፥

USERNAME	PASSWRD	ROLLNO	EMAIL	
samreen	123	2019103022	begum@gmail.com	

UPDATE:

- update user set email = 'jumana@gmail.com' where rollno = '2019103022';
- 11 select * from user;
 12

History

Results

Q Find history

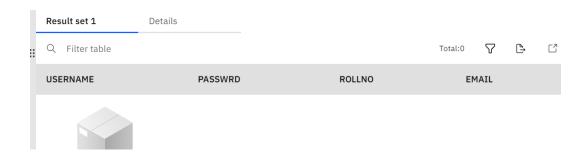
	Script	Date	Status	Runtime	
^	ass2-create table	Sep 30, 2022 10:24:04 AM	⊘ 2	0.026 s	÷
	update user set email = 'juma	ana@gmail.com' where rolln…	•	0.011 s	÷
	select * from user		•	0.015 s	÷

:::

History	Results					
Result set 1	Details					
Q Filter table			Total:1	∇	$ lap{\triangleright}$	ď
USERNAME	PASSWRD	ROLLNO	EMAIL			1
samreen	123	2019103022	jumana@gmail.d	com		

DELETE:





Question-3:

Connect python code to db2.

```
VALUMANA

Processor

Processor
```

SYNTAX:

```
conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=1bbf73c5-d84a-4bb0-85b9-
ab1a4348f4a4.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=32286;PROTOCO
L=TCPIP;UID=gsv17266;PWD=d8dV1TcTILi50hVG;SECURITY=SSL;SSLServerCertificate=Di
giCertGlobalRootCA.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=1bbf73c5-d84a-4bb0-85b9-ab1a4348f4a4.c3n41cmd0nqnrk39u98g.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["uname"],request.form["upass"],req
           ibm_db.exec_immediate(conn,sql)
           flash("Successfully Registered")
           return render_template('login.html')
       except:
          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"]
       sql="SELECT COUNT(*) FROM USER WHERE USERNAME=? AND PASSWRD=?"
        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:

REGISTER.HTML

```
<!DOCTYPE html>
       <html lang="en">
               <title>Register Page</title>
               <link rel="stylesheet" href="../static/styles.css">
                <script>
                   function loadLoginPage(){
                       window.location.assign("http://localhost:5000/login");
               <div id="Header"><h2>REGISTRATION PORTAL</h2></div>
               <form action="http://localhost:5000/" method="post">
                   <div id="frm"
                   <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>
                   <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>
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                  <div id="button"><input type="submit" value="Submit"></div>
                  <button type="button" onclick="loadLoginPage();">LOGIN</button>
```

LOGIN.HTML

```
<!DOCTYPE html>
<html lang="en">
       <title>Login Page</title>
       <link rel="stylesheet" href="../static/styles.css">
       <div id="Header"><h2>LOGIN PORTAL</h2></div>
        <form action="http://localhost:5000/login" method="post">
           <div id="frm">
            <label for="ele1">User Name:</label>
           <input type="text" name="luname" id="ele1"><br><br></pr>
           <label for="ele2">Password:</label>
           <input type="password" name="lupass" id="ele2"><br><br>
           <div id="button"><input type="submit" value="Submit"></div>
```

WELCOME.HTML

STATIC FOLDER:

Styles.css:

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

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

#Header{
    text-align: center;
    }

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

EXECUTION:

REGISTER PAGE:



ROW INSERTED:

USERNAME	PASSWRD	ROLLNO	EMAIL
jumana	123	2019103022	begumjumana@gmail.com

LOGIN PAGE:



WELCOME PAGE

Authentication Successful

