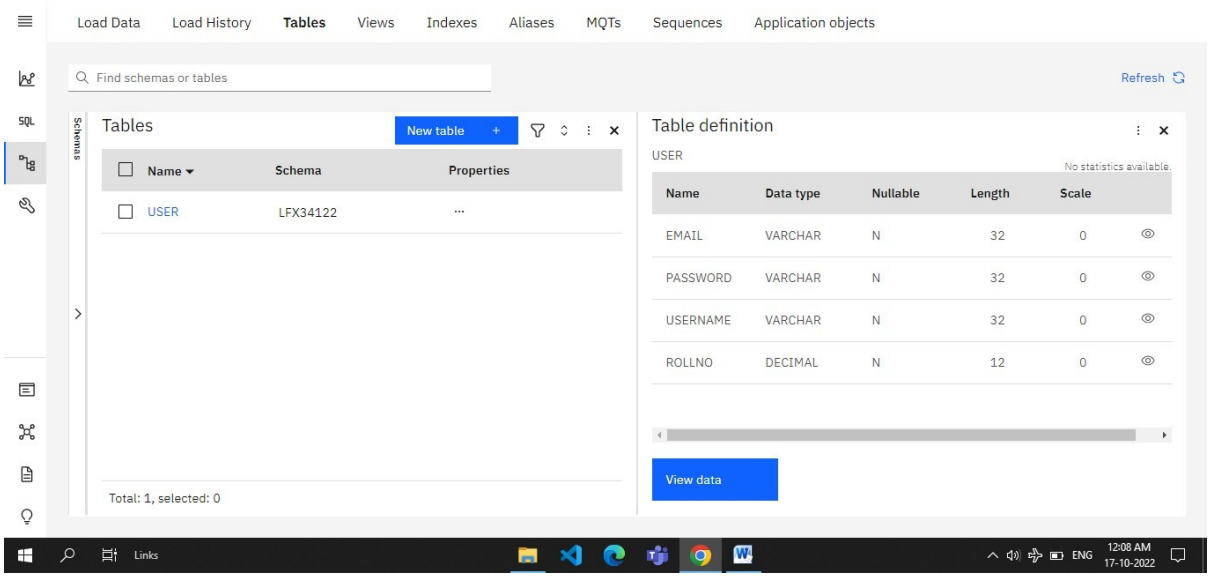
Assignment -2
Python
Programming

Assignment Date	23 September 2022
Student Name	Santhosh Kumar S
Student Roll Number	2019115089
Maximum Marks	2 Marks

Question 1:

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

Solution 1:



Question 2:

Perform UPDATE, DELETE Queries with user table

Solution 2:

INSERT

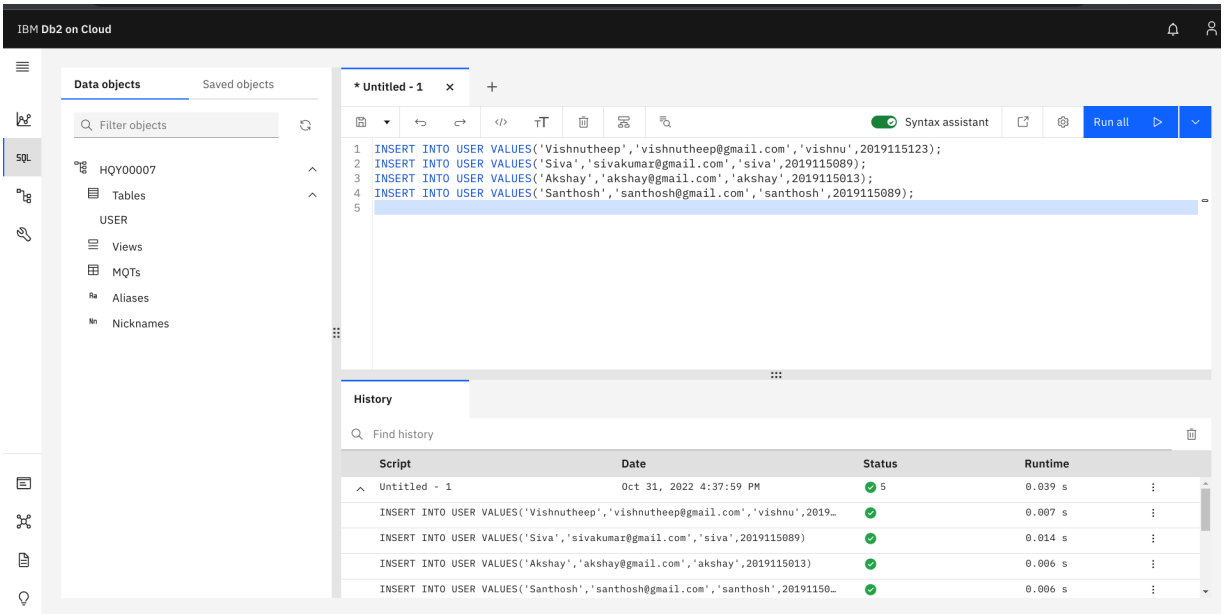
```
INSERT INTO USER

VALUES('Vishnutheep','vishnutheep@gmail.com','vishnu',2019115123)

;

INSERT INTO USER

VALUES('Siva','sivakumar@gmail.com','siva',2019115089);
```

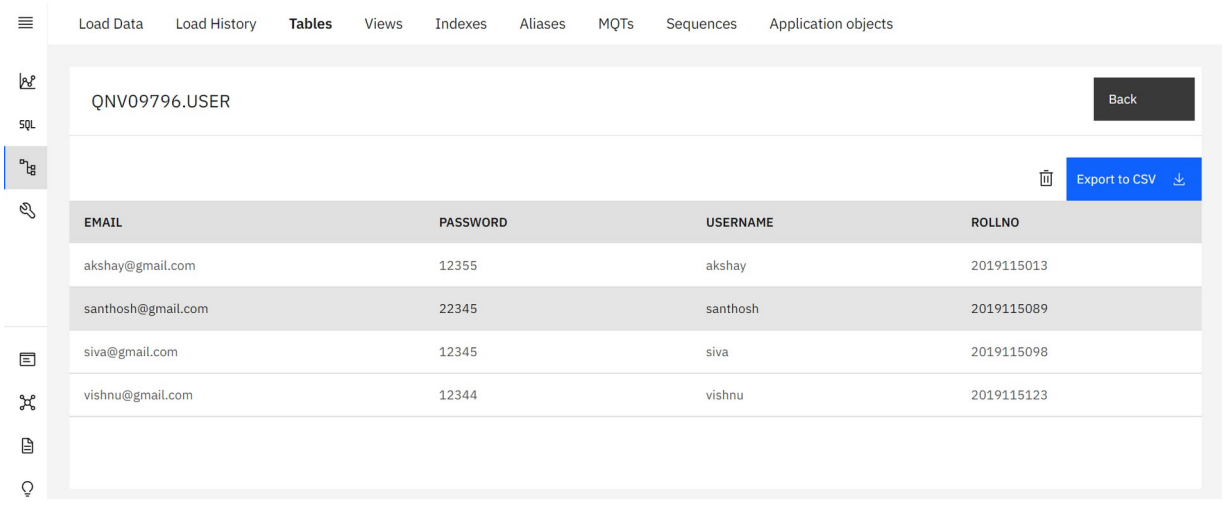
INSERT INTO USER

VALUES('Akshay','akshay@gmail.com','akshay',2019115013);

INSERT INTO USER

VALUES('Santhosh','santhosh@gmail.com','santhosh',2019115089);

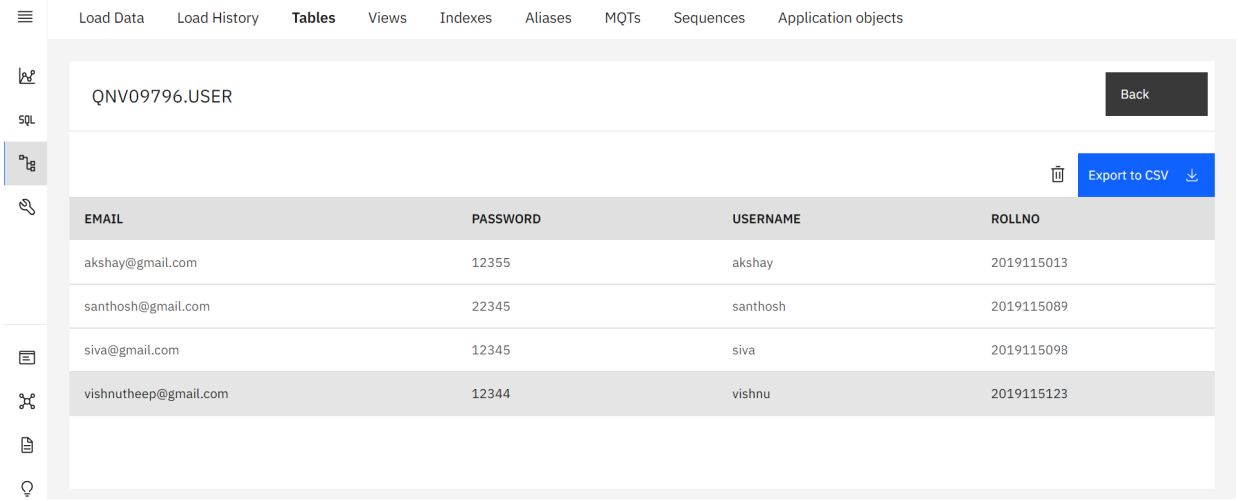




UPDATE

update user set email='vishnutheep@gmail.com' where rollno=2019115124

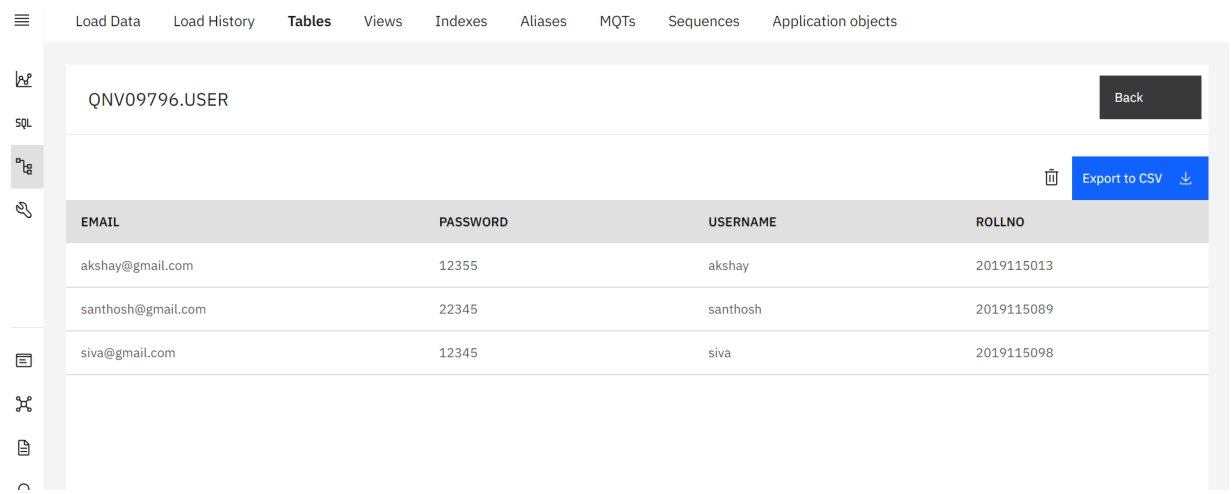
Output:



DELETE

delete from user where rollno = 2019115123

OUTPUT:



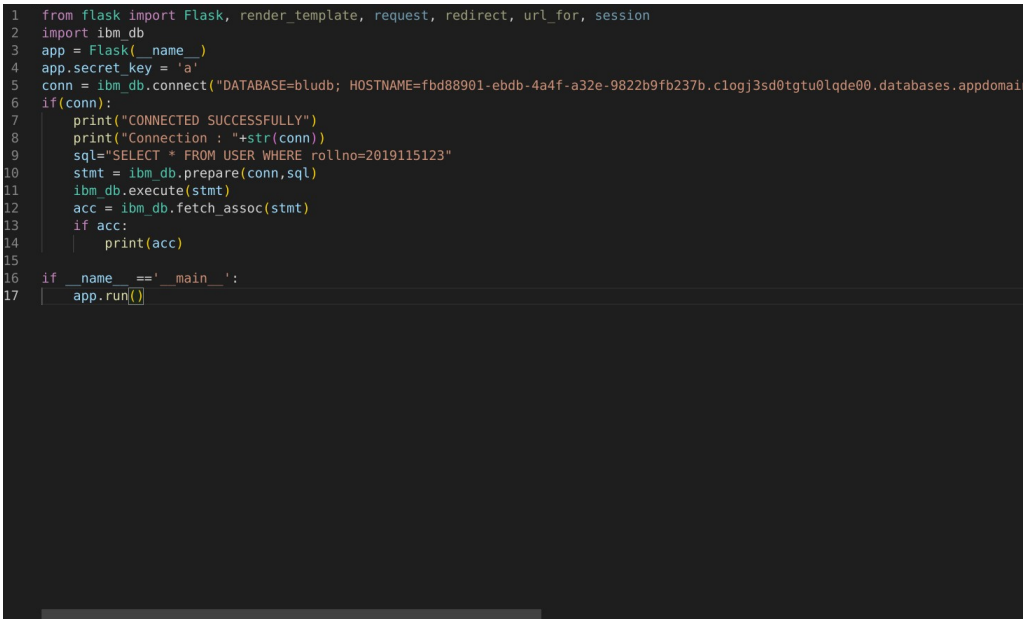
Question 3:

Connect python code to db2.

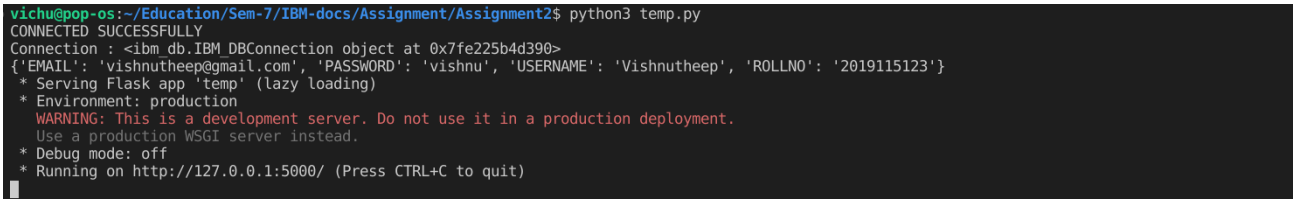
Solution 3:

```
from flask import Flask, render_template, request, redirect,
url_for, session
import ibm_db
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; SECURITY=SSL;
SSLServerCertificate=DigiCertGlobalRootCA.crt;
UID=rfh77431;PWD=1WClhcJWgdCoeAk5",'','')
if(conn):
    print("CONNECTED SUCCESSFULLY")
    print("Connection : "+str(conn))
    sql="SELECT * FROM USER WHERE rollno=2019115123"
    stmt = ibm_db.prepare(conn,sql)
    ibm_db.execute(stmt)
    acc = ibm_db.fetch_assoc(stmt)
    if acc:
        print(acc)

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



OUTPUT:



QUESTION – 4:

Create a Flask App with registration page, login page and welcome page. If the user is valid show the welcome page.

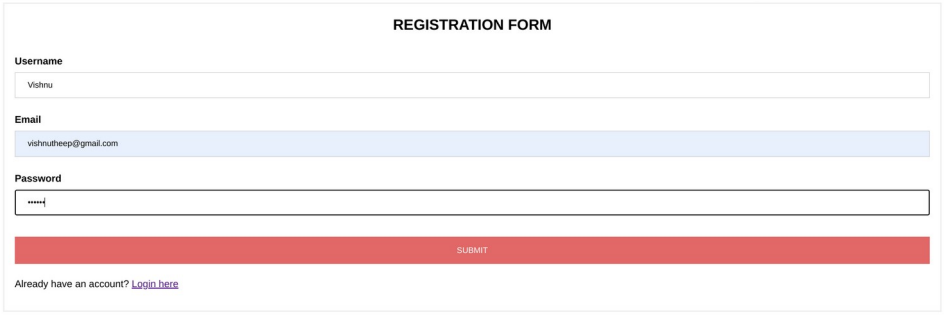
SOLUTION:

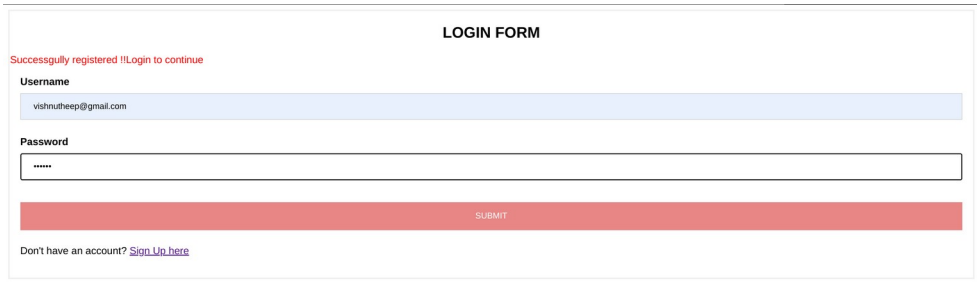
```
from flask import Flask, render_template, request, redirect,
url_for, session
import ibm_db
import re

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; SECURITY=SSL;
SSLServerCertificate=DigiCertGlobalRootCA.crt;
UID=rfh77431;PWD=1WClhcJWgdCoeAk5",'','')

@app.route('/',methods =['GET', 'POST'])
def login():
    global userid
    msg = ''
    if request.method == 'POST':
```

```
        email = request.form['email']
        password = request.form['password']
        sql = "SELECT * FROM USERS WHERE EMAIL=? AND
PASSWORD=?"
        stmt = ibm_db.prepare(conn,sql)
        ibm_db.bind_param(stmt,1,email)
        ibm_db.bind_param(stmt,2,password)
        ibm_db.execute(stmt)
        acc = ibm_db.fetch_assoc(stmt)
        print(acc)
        if acc:
            session['loggedin'] = True
            session['id'] = acc['USERNAME']
            userid = acc['USERNAME']
            session['username'] = acc['USERNAME']
            msg = acc['USERNAME']

            return render_template('dashboard.html', msg =
msg)
        else:
            msg = "Incorrect username/password!!"
    return render_template('login.html', msg = msg)

@app.route('/register',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)
        acc = ibm_db.fetch_assoc(stmt)
        print(acc)
        if acc:
            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:
            sql = "INSERT INTO USERS VALUES (?,?,?)"
            stmt = ibm_db.prepare(conn,sql)
            ibm_db.bind_param(stmt,1,username)
            ibm_db.bind_param(stmt,2,email)
            ibm_db.bind_param(stmt,3,password)
            ibm_db.execute(stmt)
            msg = "Successgully registered !!Login to continue"
            return render_template('login.html', msg = msg)
    elif request.method == 'POST':
        msg = "Please fill out the form !"
    return render_template('register.html', msg = msg)
if __name__ =='__main__':
    app.run()
```

OUTPUT:


REGISTRATION FORM
Username
Vishnu
Email
vishnutheep@gmail.com
Password
SUBMIT
Already have an account? Login here


LOGIN FORM
Successgully registered !!Login to continue
Username
vishnutheep@gmail.com
Password
SUBMIT
Don't have an account? Sign Up here


Welcome Vishnu