#### Assignment -2

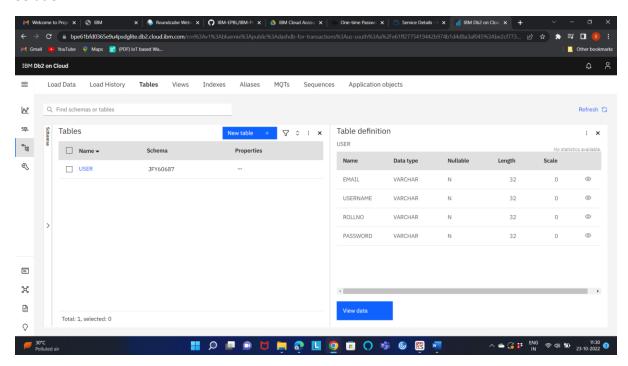
#### **Python Programming**

Assignment Date	23 October 2022
Student Name	Srinidhi S
Student Roll Number	2019115105
Maximum Marks	2 Marks

#### Question-1:

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

#### Solution-1:



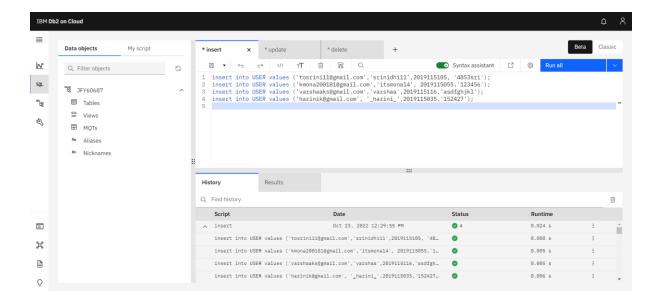
#### Question-2:

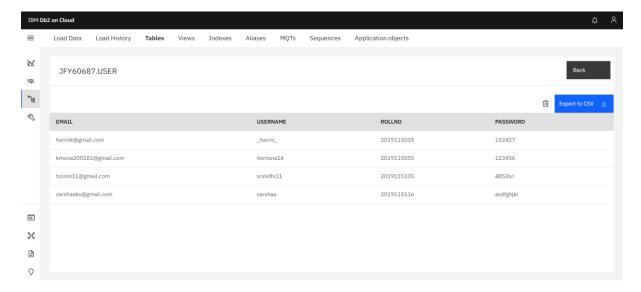
Perform UPDATE, DELETE Queries with user table.

#### Solution-2:

#### <u>Insert</u>

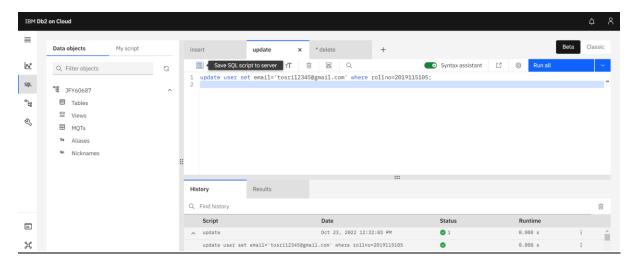
insert into USER values ('tosrini11@gmail.com','srinidhi11',2019115105, '4853sri'); insert into USER values ('kmona200181@gmail.com','itsmona14', 2019115055,'123456'); insert into USER values ('varshaaks@gmail.com','varshaa',2019115116,'asdfghjkl'); insert into USER values ('harinik@gmail.com', '\_harini\_',2019115035,'152427');

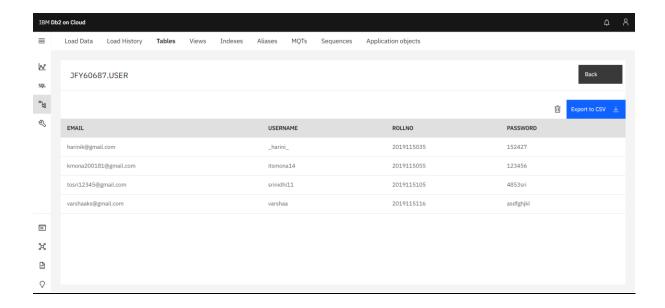




#### **Update**

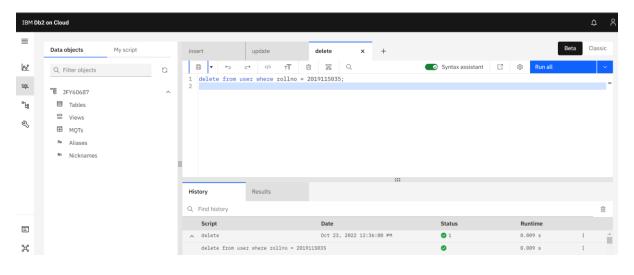
update user set email='tosri12345@gmail.com' where rollno=2019115105;

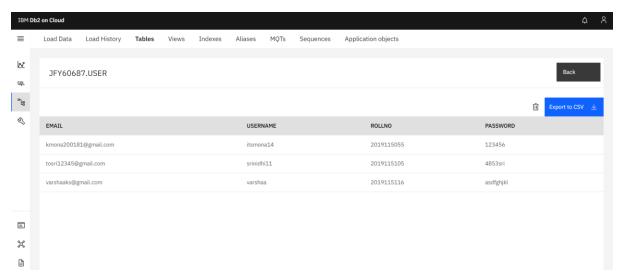




#### **Delete**

delete from user where rollno = 2019115035;

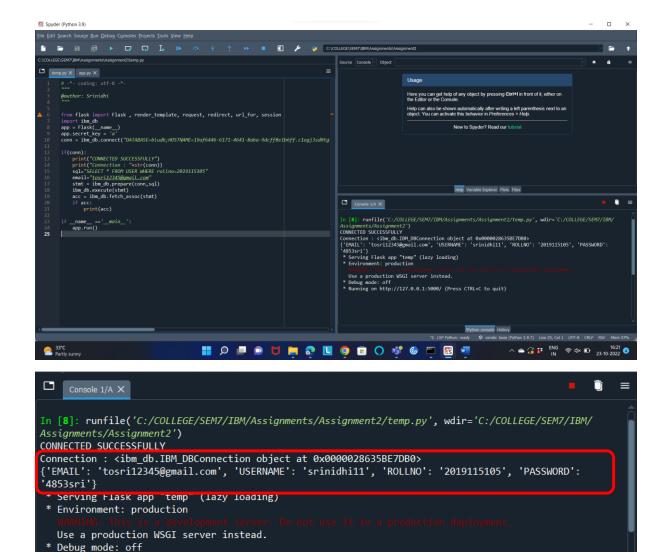




#### Question-3:

Connect python code to db2.

```
Solution-3:
# -*- coding: utf-8 -*-
@author: Srinidhi
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=19af6446-6171-4641-8aba-
9dcff8e1b6ff.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30699;SECURITY=SSL;SSLSer
verCertificate=DigiCertGlobalRootCA.crt;UID=jfy60687;PWD=XVHyqh5GQJBW5LFF",",")
if(conn):
  print("CONNECTED SUCCESSFULLY")
  print("Connection : "+str(conn))
  sql="SELECT * FROM USER WHERE rollno=2019115105"
  email="tosri12345@gmail.com"
  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()
```



### Question-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

IPython console History

#### Solution-4:

```
# -*- coding: utf-8 -*-
```

Created on Sun Oct 23 16:04:42 2022

\* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)

```
@author: tosri
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=19af6446-6171-4641-8aba-
9dcff8e1b6ff.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30699;SECURITY=SSL;SSLSer
verCertificate=DigiCertGlobalRootCA.crt;UID=jfy60687;PWD=XVHyqh5GQJBW5LFF",",")
@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)

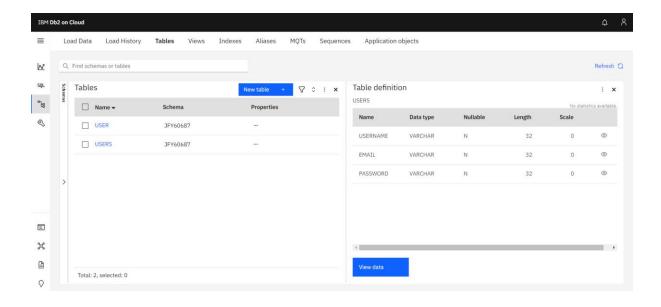
elif request.method == 'POST':

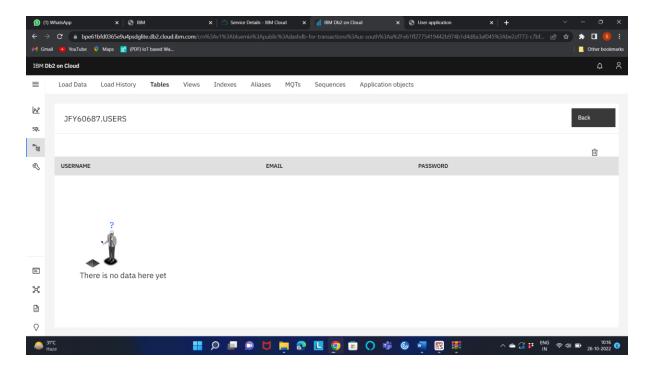
msg = "Please fill out the form !"

return render_template('register.html', msg = msg)

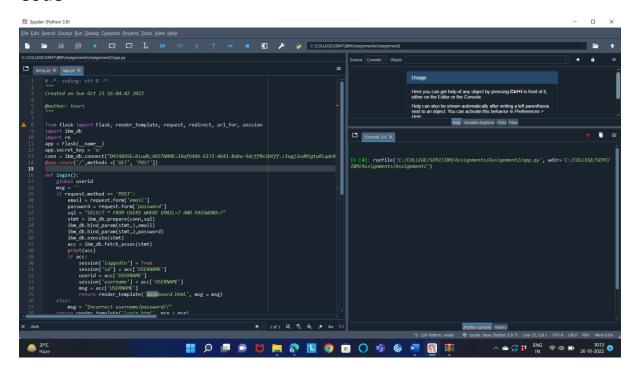
if __name__ =='__main__':

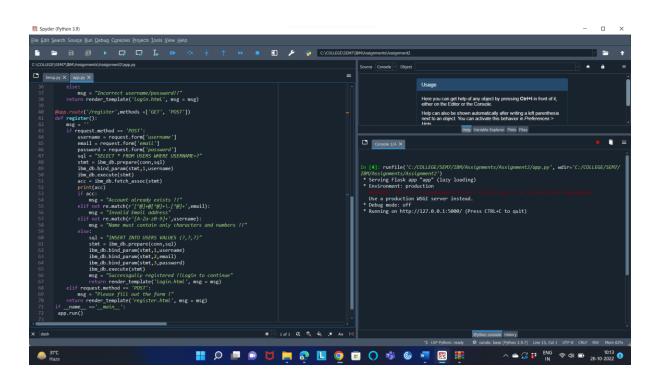
app.run()
```



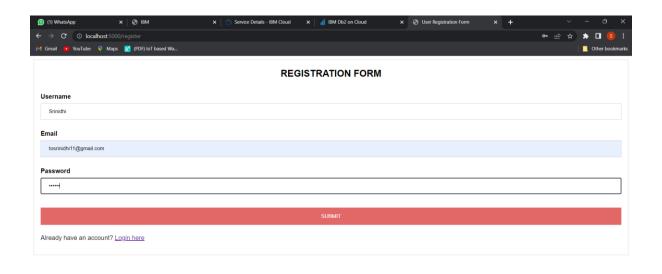


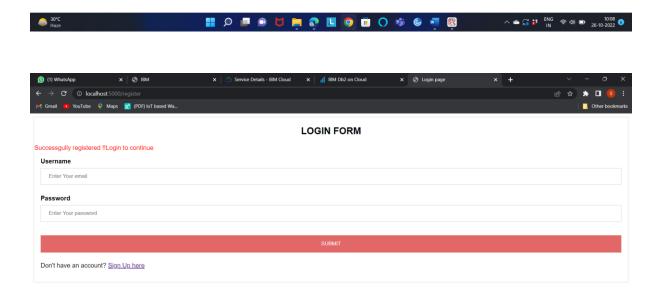
#### Code





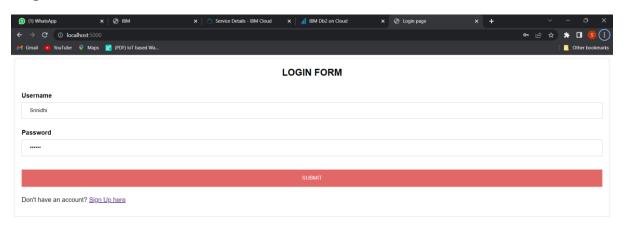
# Register

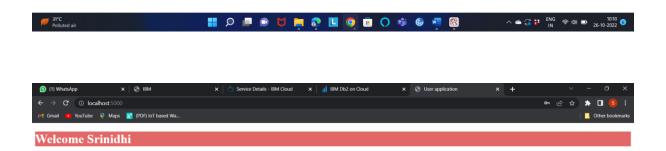






# Login







## **Table**

