Assignment -2

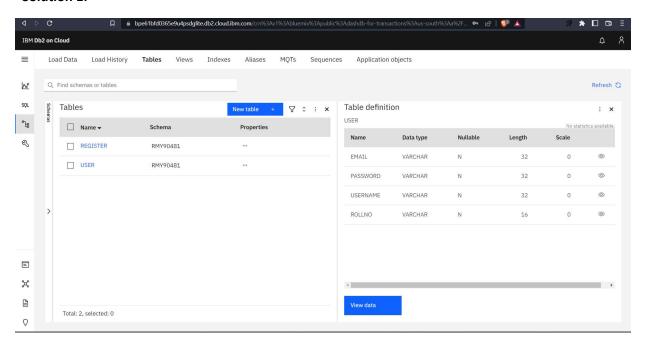
Python Programming

Assignment Date	23 September 2022
Student Name	Sudhirkumar S
Student Roll Number	2019115110
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:

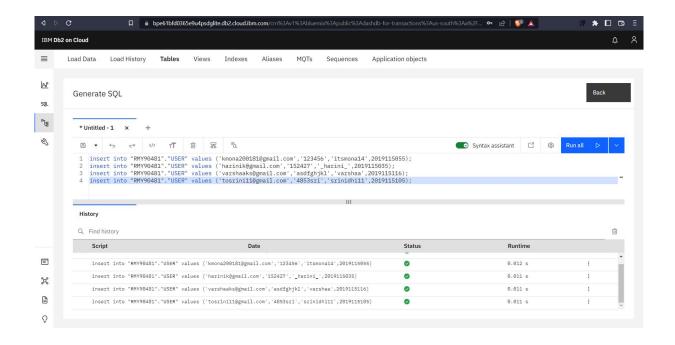
INSERT

insert into USER values ('kmona200181@gmail.com','123456','itsmona14',2019115055);

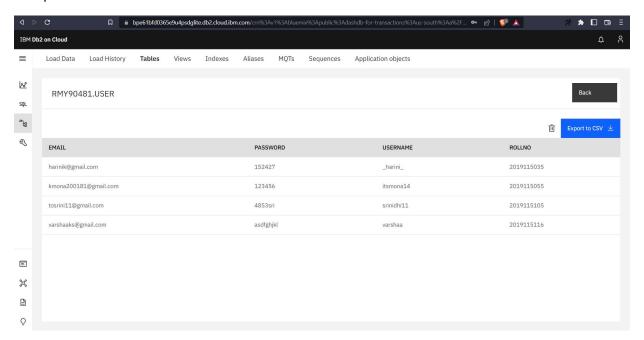
insert into USER values ('harinik@gmail.com','152427','_harini_',2019115035);

insert into USER values ('varshaaks@gmail.com', 'asdfghjkl', 'varshaa', 2019115116);

insert into USER values (tosrini11@gmail.com','4853sri','srinidhi11',2019115105);

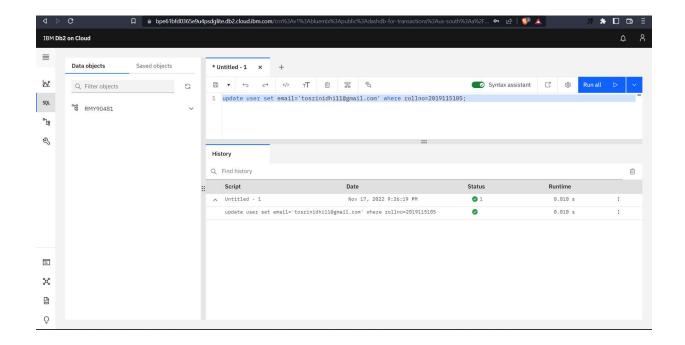


Output:

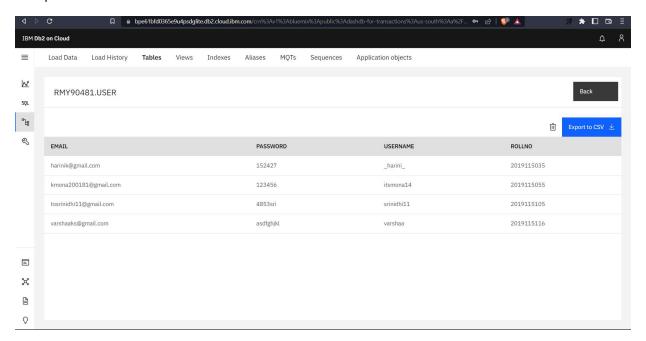


UPDATE

update user set email='tosrinidhi11@gmail.com' where rollno=2019115105

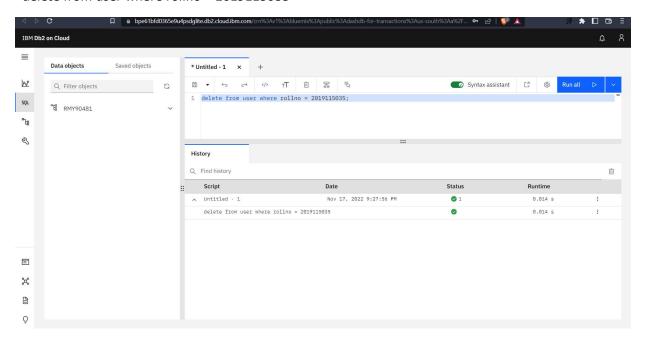


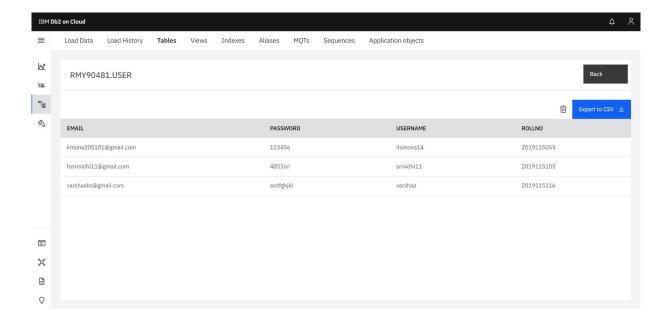
Output:



DELETE

delete from user where rollno = 2019115035



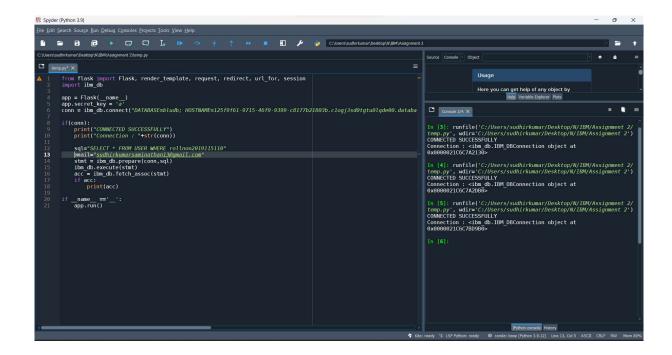


Question 3:

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=125f9f61-9715-46f9-9399-
c8177b21803b.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud; PORT=30426; SECURITY=SSL;
SSLServerCertificate=DigiCertGlobalRootCA.crt; UID=rmy90481;PWD=qrJOWspW6naGUoOF",",")
if(conn):
  print("CONNECTED SUCCESSFULLY")
  print("Connection : "+str(conn))
  sql="SELECT * FROM USER WHERE rollno=2019115110"
  email="sudhirkumarsaminathan13@gmail.com"
  stmt = ibm_db.prepare(conn,sql)
  ibm_db.execute(stmt)
  acc = ibm_db.fetch_assoc(stmt)
  if acc:
    print(acc)
if __name__ =='__':
  app.run()
```



Question 4:

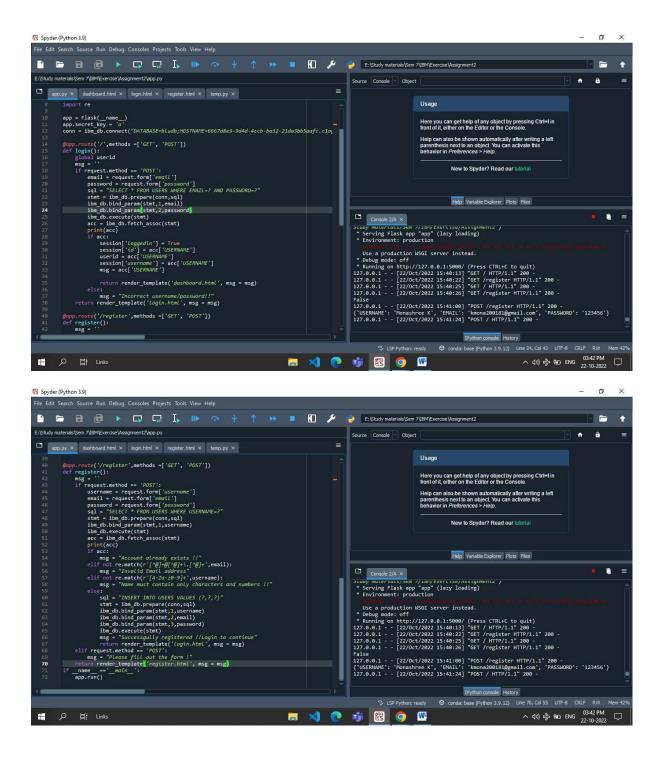
Create a flask app with registration page, login page and welcome page. By default load the registration page once the user enters all the fields store the data in database and navigate to login page authenticate user username and password. If the user is valid show the welcome page

Solution 4:

```
# -*- coding: utf-8 -*-
.....
@author: Monashree
.....
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=6667d8e9-9d4d-4ccb-ba32-
21da3bb5aafc.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30376;SECURITY=SSL;SSLSe
rverCertificate=DigiCertGlobalRootCA.crt;UID=lfx34122;PWD=jmQDS9wCaxqRIIQd",",")
@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)
```

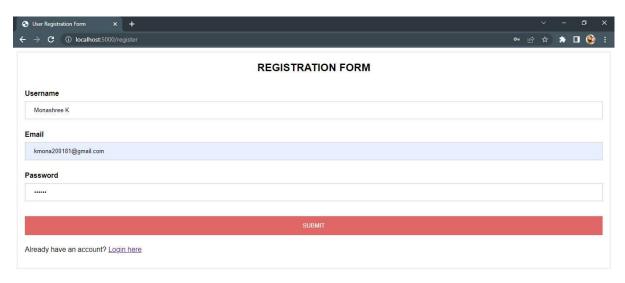
```
acc = ibm_db.fetch_assoc(stmt)
    print(acc)
    if acc:
      session['loggedin'] = True
      session['id'] = acc['USERNAME']
      userid = acc['USERNAME']
      session['username'] = acc['USERNAME']
      msg = acc['USERNAME']
      return render_template('dashboard.html', msg = msg)
    else:
      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()
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ad Data
                              Indexes
                                                   Sequences
                                                            Application objects
Find schemas or tables
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                                                    PASSWORD
                                                             VARCHAR
```



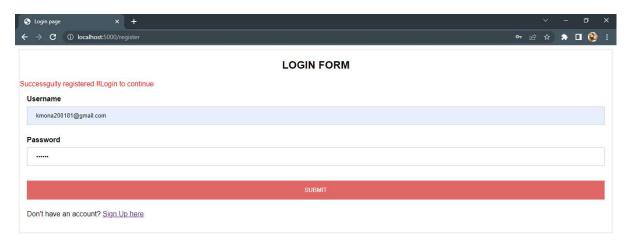
Output:

Register page





Login page





Welcome page



