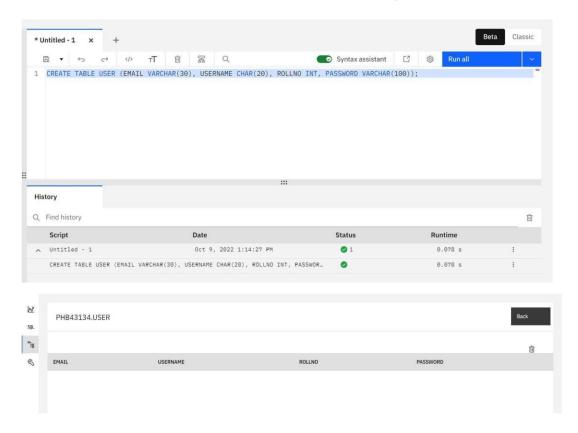
Assignment -2 Connect with Database Assignment

Assignment Date	18 october 2022
Student Name	Rubasri.A
Student Roll Number	510519205020
Maximum Marks	2 Marks

Question-1:

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



2. Perform UPDATE, DELETE Queries with User table

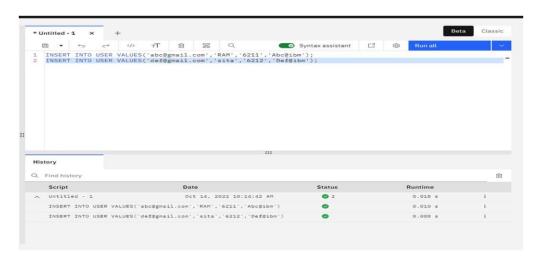
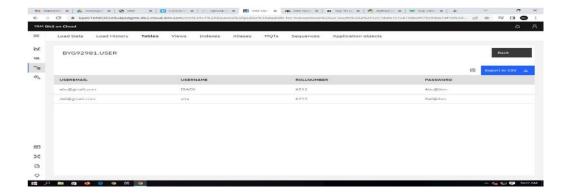


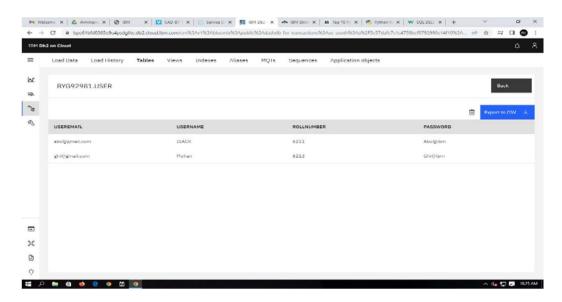
Table View:



UPDATE:



Table View:



DELETE:

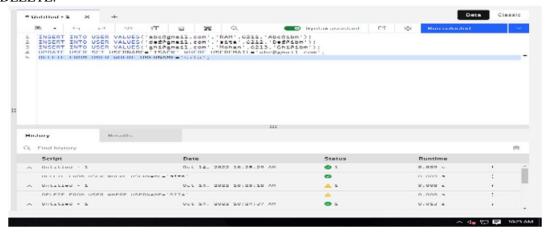
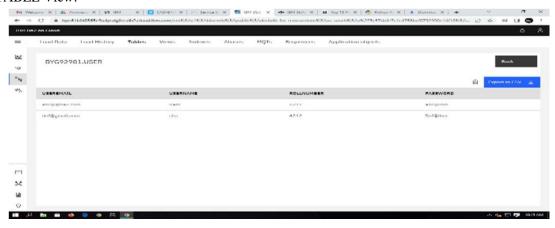


TABLE View:



3. Connect python with db2.

Solution:

import ibm_db

conn = ibm_db.connect("DATABASE=bludb;HOSTNAME= 1bbf73c5-d84a-4bb0-85b9-ab1a4348f4a4.c3n41cmd0 nqnrk39u98g.databases.appdomain.cloud;PORT=32286;SECURITY=SSL;SSLS erverCertificate=DigiCertGl obalRootCA.crt;PROTOCOL=TCPIP;UID= byg92981;PWD=" 9jZpv8EpbeEMaB6i",",")

4. Create a flask app with the registration page. Login page and the 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 so the welcome page.

```
Solution:
app.py from flask import Flask, render template, request, redirect, url for,
session
import ibm db
import bcrypt conn
ibm_db.connect("DATABASE=bludb;HOSTNAME=;PORT=;SECURITY=SSL;SSLServerCertific
ate=DigiCer tGlobalRootCA.crt;UID=;PWD=",",") # url_for('static', filename='style.css')
app = Flask(_name_)
app.secret_key = 'C21FGSBAPOK43K5VSIDFB2'
@app.route("/",methods=['GET'])
def home():
  if 'email' not in session:
   return redirect(url_for('login'))
  return render_template('home.html',name='Home')
@app.route("/register",methods=['GET','POST'])
def register(): if request.method ==
 'POST': email = request.form['email']
 username = request.form['username']
 rollNo = request.form['rollNo']
  password = request.form['password']
  if not email or not username or not rollNo or not password:
   return render_template('register.html',error='Please fill all fields')
  hash=bcrypt.hashpw(password.encode('utf-8'),bcrypt.gensalt())
  query = "SELECT * FROM USER WHERE email=? OR
  rollNo=?" stmt = ibm_db.prepare(conn, query)
  ibm_db.bind_param(stmt,1,email)
  ibm_db.bind_param(stmt,2,rollNo) ibm_db.execute(stmt)
  isUser = ibm_db.fetch_assoc(stmt)
  if not is User:
   insert sql = "INSERT INTO User(username,email,PASSWORD,rollNo) VALUES
   (?,?,?,?)"
                                             ibm db.prepare(conn,
                                                                         insert sql)
                   prep stmt
                                    =
   ibm_db.bind_param(prep_stmt, 1, username) ibm_db.bind_param(prep_stmt, 2,
   email) ibm_db.bind_param(prep_stmt, 3, hash) ibm_db.bind_param(prep_stmt, 4,
   rollNo) ibm_db.execute(prep_stmt)
```

return render_template('register.html',success="You can login")

```
else:
                       render_template('register.html',error='Invalid
            return
 Credentials') return render_template('register.html',name='Home')
@app.route("/login",methods=['GET','POST'])
def login():
  if request.method == 'POST':
   email = request.form['email']
   password = request.form['password']
   if not email or not password:
    return render_template('login.html',error='Please fill all fields')
   query = "SELECT * FROM USER WHERE
   email=?" stmt = ibm_db.prepare(conn, query)
   ibm_db.bind_param(stmt,1,email)
   ibm_db.execute(stmt) isUser =
   ibm_db.fetch_assoc(stmt)
   print(isUser,password)
   if not is User:
    return render_template('login.html',error='Invalid Credentials')
   isPasswordMatch = bcrypt.checkpw(password.encode('utf-
   8'),isUser['PASSWORD'].encode('utf-
8'))
   if not isPasswordMatch:
    return render_template('login.html',error='Invalid Credentials')
   session['email'] = isUser['EMAIL']
   return redirect(url for('home'))
  return render template('login.html',name='Home')
@app.route('/logout') def
logout():
  session.pop('email', None)
  return redirect(url_for('login'))
```

OUTPUT:











Database:

