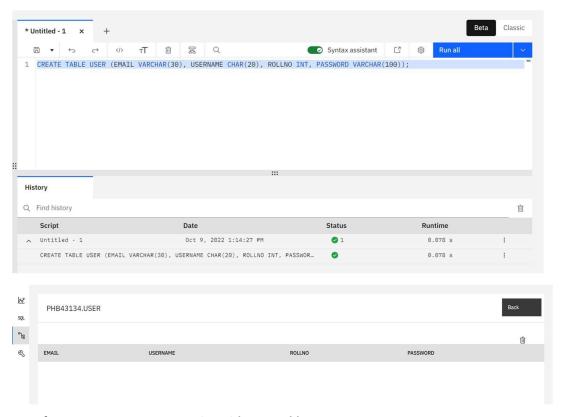
Assignment -2

Connect with Database Assignment

Assignment Date	09 October 2022
Student Name	Kishorekumar P
Student Roll Number	621319104027
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

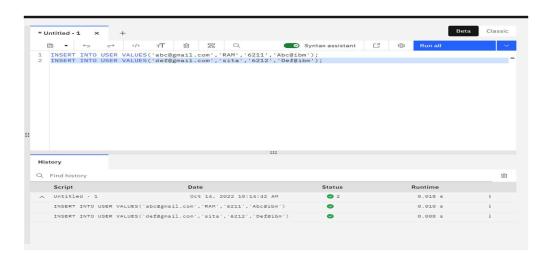
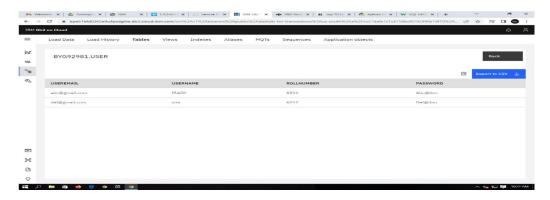


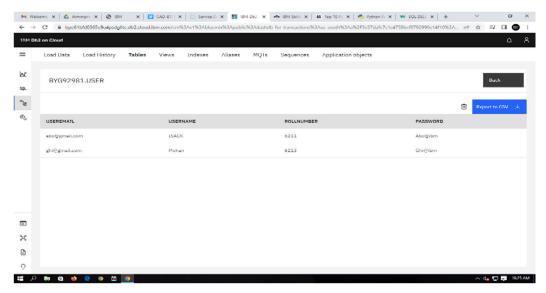
Table View:



UPDATE:



Table View:



DELETE:

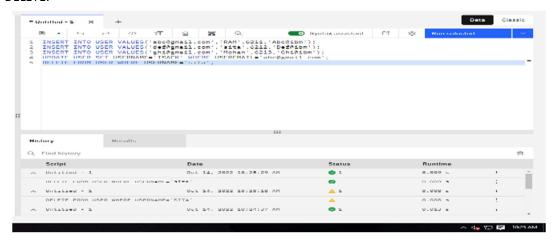
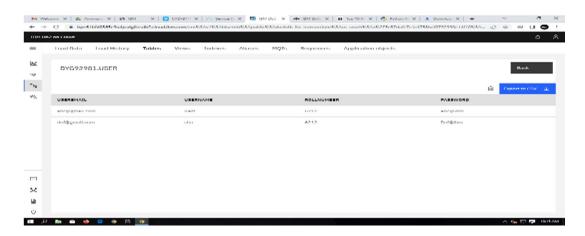


TABLE View:



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=" 9j Zpv8EpbeEMaB6i", '', '')
```

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;SSLServerCertificate=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 (?,?,?,?)"
   prep_stmt = ibm_db.prepare(conn, insert_sql)
   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")
  return render template('register.html',error='Invalid 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 isUser:
    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')

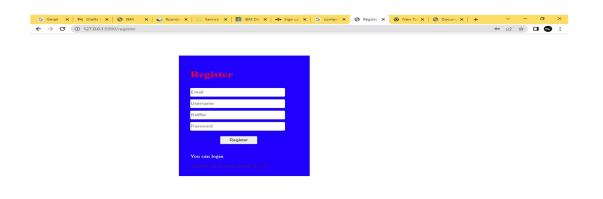
session['email'] = isUser['EMAIL']
    return redirect(url_for('home'))

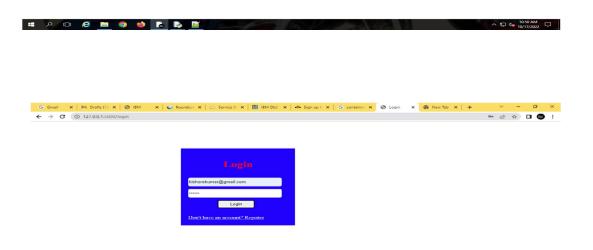
return render_template('login.html',name='Home')
@app.route('/logout')
def logout():
    session.pop('email', None)
    return redirect(url_for('login'))
```

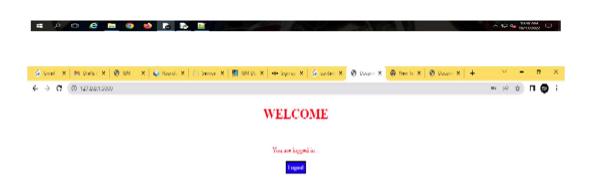
OUTPUT:











Database:

