Assignment-2

Project Domain	Cloud Application Development
Project Title	News Tracker Application
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Date	03rd Oct 2022

Questions:

- 1. Create registration page in html with username, email, and phone number and by using POST method display it in next html page.
- 2. Develop a flask program which should contain at least 5 packages used from pypi.org.
- 3. Create User table with user with email, username, roll number, password.
- 4. Perform UPDATE, DELETE Queries with user table
- 5. Connect python code to db2.
- 6. 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.

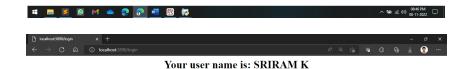
Answers:

1. Create registration page in html with username, email, and phone number and by using POST method display it in next html page.

```
Login.html:
<html>
<body>
      <center>
      <form action = "http://localhost:3890/login" method = "post">
             <h1>
             Enter user Name:<input type = "text" name = "userName"/><br>
             Enter Email-id:<input type = "text" name = "emailId"/><br>
                                                               "text"
             Enter
                      Phone
                                Number:<input
                                                  type
                                                                        name
"phoneNumber"/><br><br>
             <input type = "submit" value = "SUBMIT"/>
      </h1>
      </form>
```

```
</center>
</body>
</html>
Sample.py:
from flask import Flask, redirect, url for, request
app = Flask( name )
@app.route('/login', methods=['POST'])
def login():
       if request.method == 'POST':
              user name = request.form['userName']
              email id = request.form['emailId']
              phone number = request.form['phoneNumber']
                       '{} {} {} {} {} {} {} !.format("<center><h1>Your
              return
                                                                    user
                                                                           name
",user_name,"</h1><br><br><br><br>Your email-id is: ",email_id,"</h2><br><br><br>>Your
phone number is: ",phone number,"</h3></center>")
if name == ' main ':
       app.run('127.0.0.1',3890)
```



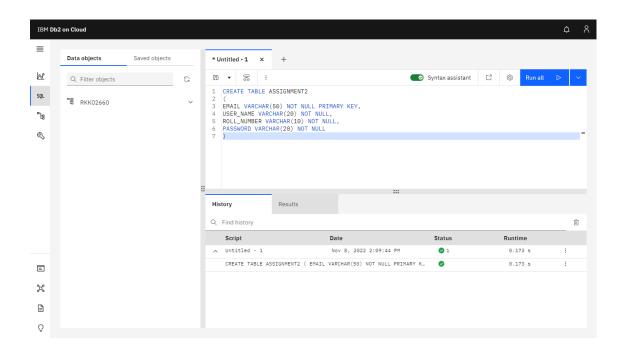


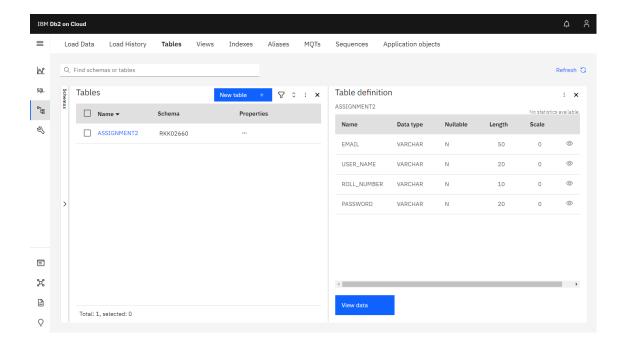
Your email-id is: 731119205043@smartinternz.com

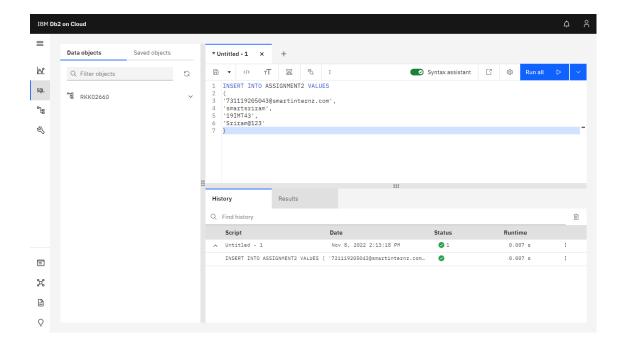
Your phone number is: 9876543210

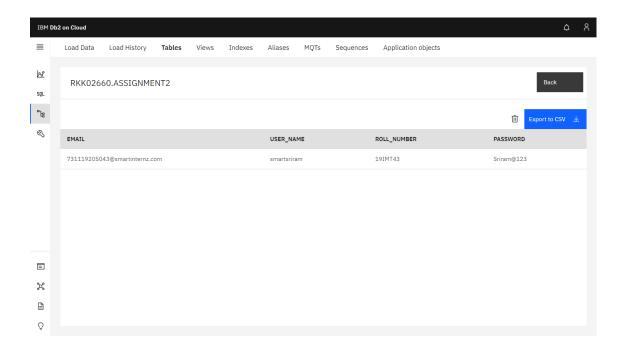


3. Create User table with user with email, username, roll number, password.

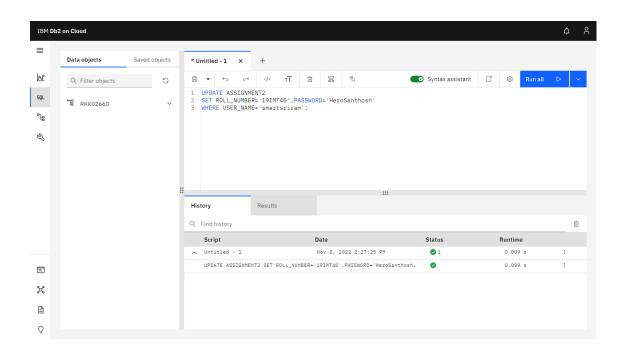


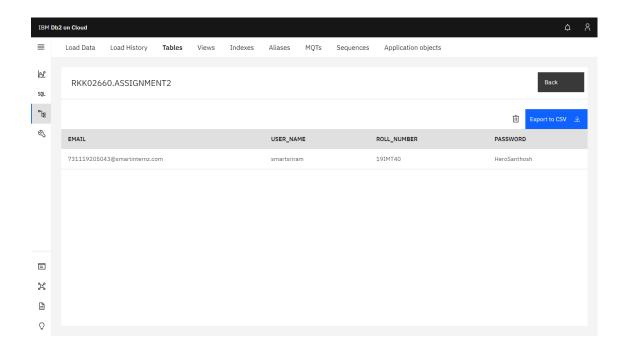


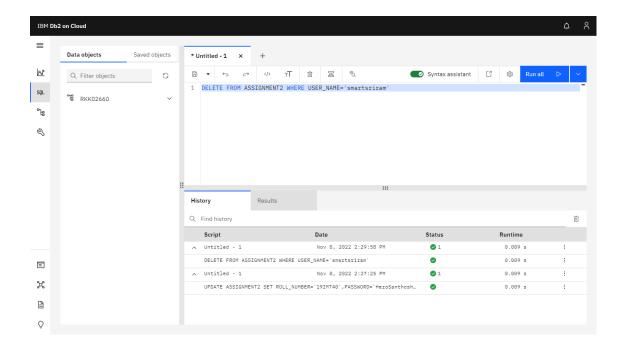


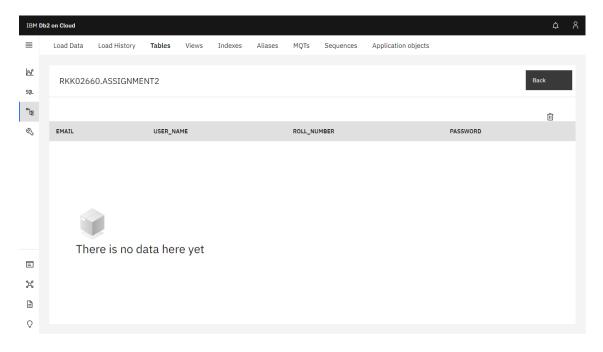


4.Perform UPDATE, DELETE Queries with user table









app.py

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=ba99a9e6-d59e-4
883-8fc0-d6a8c9f7a08f.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PO
RT=31321;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.c
rt;UID=rkk02660;PWD=MjT4FnHjLsN6rpbn",' ',' ')
@app.route('/')
def home():
  return render template('home.html')
@app.route('/login',methods=['GET','POST'])
def login():
  global userid
  msg=' '
  if request.method=='POST':
    username = request.form['username']
    password = request.form['password']
    sql = "SELECT * FROM Users WHERE username = ? AND password =
    stmt = ibm db.prepare(conn,sql)
    ibm db.bind param(stmt,1,username)
    ibm db.bind param(stmt,2,password)
    ibm db.execute(stmt)
    account = ibm db.fetch assoc(stmt)
    print(account)
    if account:
       session['Loggedin']=True
       session['id']=account['username']
      userid=account['username']
       session['username']=account['username']
       msg='Logged in successfully!'
       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():
    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)
       account = ibm db.fetch assoc(stmt)
       print(account)
       if account:
          msg='Account already exist!'
       elif not re.match(r'\lceil \land @ \rceil + @ \lceil \land @ \rceil + \land \lceil \land @ \rceil + \land email):
          msg="Invalid email address"
       else:
          insert sql="INSERT INTO users VALUES(?, ?, ?)"
          prep stmt=ibm db.prepare(conn,inser sql)
          ibm db.bind param(prep stmt,1,username)
          ibm db.bind param(prep stmt,2,email)
          ibm db.bind param(prep stmt,3,password)
          ibm db.execute(prep stmt)
          msg="You have successfully registered"
     elif request.method=='POST':
       msg="Please fill out the form"
       return render template('register.html',msg=msg)
(a) app.route('/dashboard', methods=['GET', 'POST'])
def dash():
  return render template('dashboard.html')
@app.route('/apply',methods=['GET','POST'])
def app():
  msg=' '
  if request.method=="POST":
     username=request.form['username']
     email=request.form['email']
     qualification=request.form['qualification']
     skills=request.form['skills']
     jobs=request.form['s']
     stmt = ibm db.prepare(conn,sql)
     ibm db.bind param(stmt,1,username)
     ibm db.execute(stmt)
     account=ibm db.fetch assoc(stmt)
     print(account)
     if account:
       msg="There is only 1 job position"
       return render template('app.html',msg=msg)
```

```
insert sql="INSERT INTO job VALUES(?, ?, ?, ?)"
     perp 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,qualification)
    ibm db.bind param(prep stmt,4,skills)
    ibm db.bind param(prep stmt,5,jobs)
    ibm db.execute(stmt)
    msg="You have successfully applied for the job"
     session['Loggedin']
    TEXT="Hello user, a new application for job position" +
jobs+isrequested
  elif request.method=="POST":
       msg="Please fill out the form"
       return render template('apply.html',msg=msg)
@app.route('/display')
def display():
  print (session["username"],session['id'])
  cursor=mysql.connection.cursor()
  cursor.execute('SELECT * FROM job WHERE userid=%s',session['id'],)
  account=cursor.fetchone()
  print("accountdisplay",account)
@app.route('/logout')
def logout():
  session.pop('loggedin',None)
  session.pop('id',None)
  session.pop('username',None)
  return render template('home.html')
if name == ' main ':
  app.run(host="0.0.0.0")
```