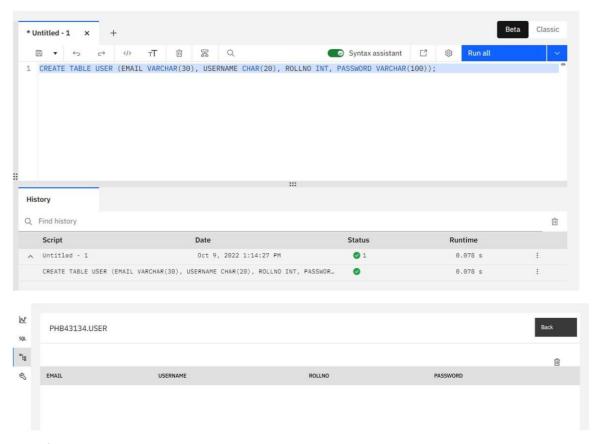
Assignment -2

Connect with Database Assignment

Assignment Date	09 October 2022
Student Name	Prashna M
Student Roll Number	621319104041
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

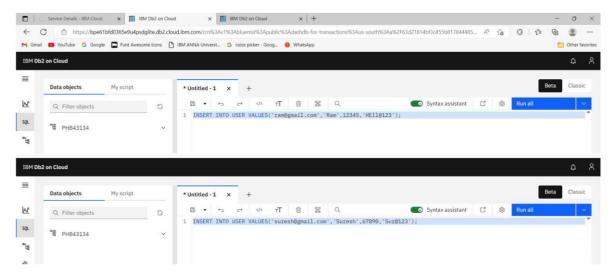
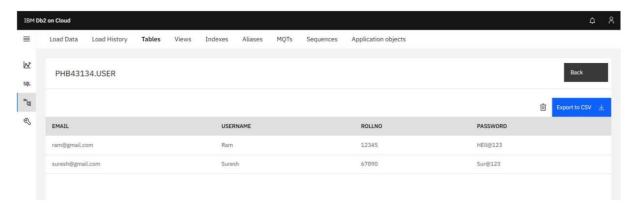


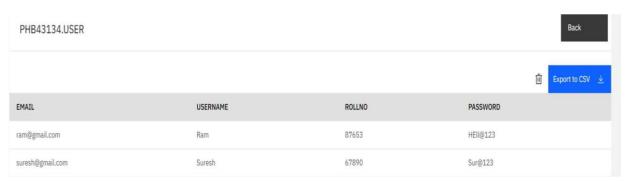
Table View:



UPDATE:



Table View:



DELETE:



TABLE View:



3. Connect python with db2.

Solution:

import ibm_db

 $conn = ibm_db.connect ("DATABASE=bludb; HOSTNAME=54a2f15b-5c0f-46df-8954-7e38e612c2bd.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud; PORT=32733; SECURITY=SSL; SSLS erverCertificate=DigiCertGlobalRootCA.crt; PROTOCOL=TCPIP; UID=phb43134; PWD=mTTnIE45Raj9A0 rr",")$

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 isUser:
   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:

