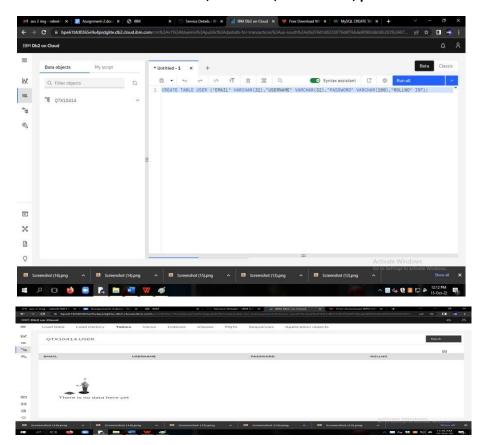
## Assignment -2

# Connect with Database Assignment

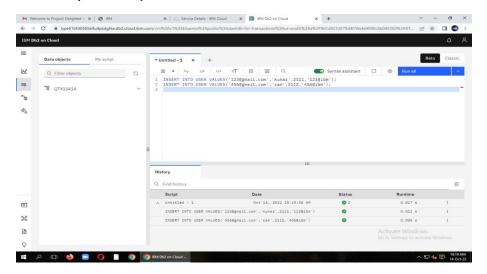
Assignment Date	10 October 2022
Student Name	P.Thanga tamizh
Student Roll Number	621319104060
Maximum Marks	2 Marks

### Question-1:

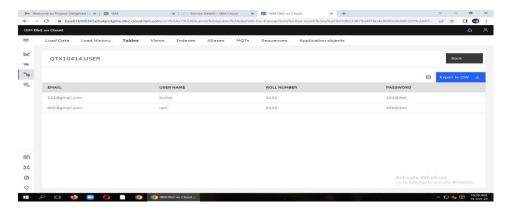
1. Create User table with user with email, username, roll number, password.



2. Perform UPDATE, DELETE Queries with User table



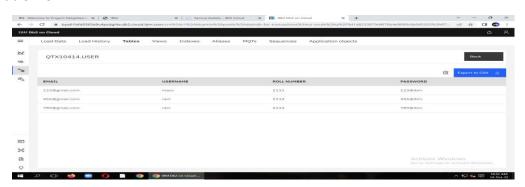
# Table View:



# UPDATE:



## Table View:



## **DELETE:**



#### **TABLE View:**



3. Connect python with db2.

#### Solution:

```
import ibm_db
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=b70af05b-76e4-4bca-a1f5-
23dbb4c6a74e.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32716;SECURITY=SSL;SSLServerCertificat
e=DigiCertGlobalRootCA.crt;PROTOCOL=TCPIP;UID=cjt21363;PWD=dEPd3PJqjDnLiQZm",",")
```

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
```

import ibm\_db

```
from flask import Flask, render_template, request, redirect, url_for, session
```

```
import bcrypt
conn = ibm db.connect("DATABASE=bludb;HOSTNAME=b70af05b-76e4-4bca-a1f5-
23dbb4c6a74e.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32716;SECURITY=SSL;SSLServerCertificate
=DigiCertGlobalRootCA.crt;PROTOCOL=TCPIP;UID=cjt21363;PWD=dEPd3PJqjDnLiQZm",",")
# url_for('static', filename='style.css')
app = Flask(_name_)
app.secret_key = b'_5#y2L"F4Q8z\n\xec]/'
@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(EMAIL, USERNAME, PASSWORD, ROLLNO) VALUES (?,?,?,?)"
   prep_stmt = ibm_db.prepare(conn, insert_sql)
   ibm_db.bind_param(prep_stmt, 1, email)
   ibm_db.bind_param(prep_stmt, 2, username)
   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:
   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 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'))
if __name__ == "_main_":
    app.run(debug=True)
```

