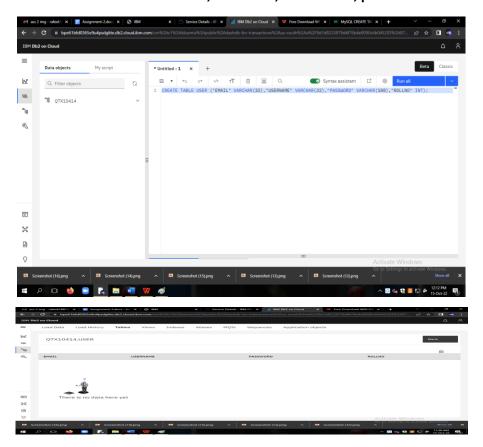
Assignment -2

Connect with Database Assignment

Assignment Date	09 October 2022
Student Name	S.Mohammed Rafeek
Student Roll Number	621319104030
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

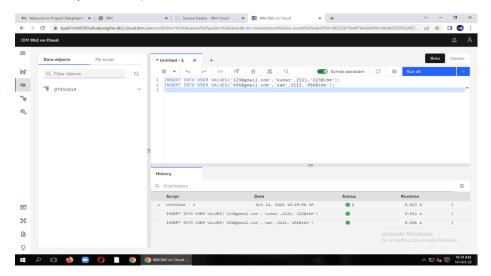
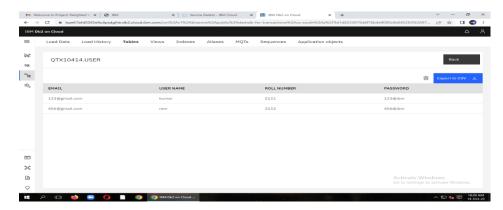


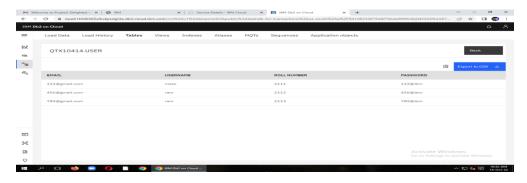
Table View:



UPDATE:



Table View:



DELETE:



TABLE View:



3. Connect python with db2.

Solution:

import ibm db

conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=6667d8e9-9d4d-4ccb-ba32-21da3bb5aafc.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30376;SECURITY=SSL;SSLS erverCertificate=DigiCertGlobalRootCA.crt;PROTOCOL=TCPIP;UID=qtx10414;PWD=jMIXi3MGbJcaYc5E ",'','')

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.

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

=DigiCertGlobalRootCA.crt;PROTOCOL=TCPIP;UID=qtx10414;PWD=jMIXi3MGbJcaYc5E",",")

Solution:

```
app.py
```

```
import ibm_db import bcrypt conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=6667d8e9-9d4d-4ccb-ba32-21da3bb5aafc.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30376;SECURITY=SSL;SSLServerCertificate
```

```
# 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')

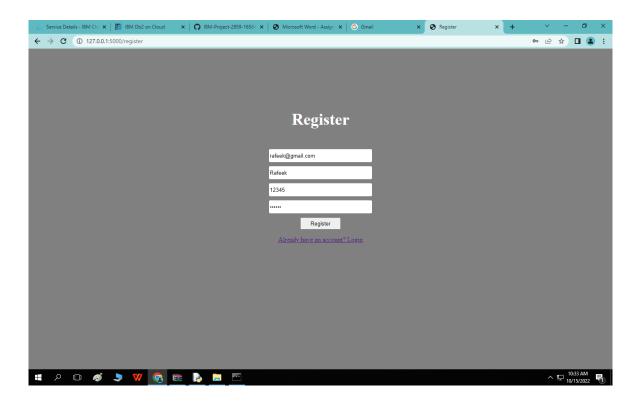
@app.route("/register",methods=['GET','POST'])
def register():
    if request.method == 'POST':
        email = request.form['email']
        username = request.form['username']
```

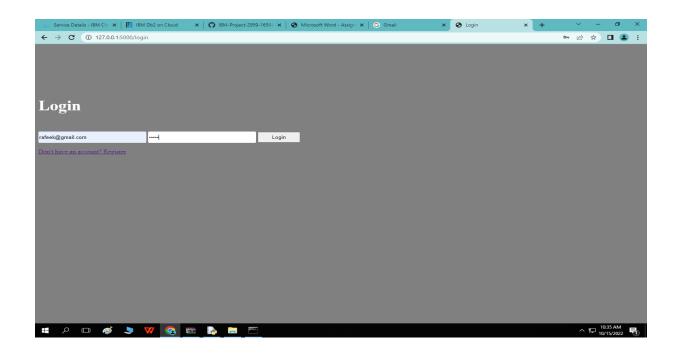
```
rollNo = request.form['rollNo']
  password = request.form['password']
  if not email or not username or not rollNo or not password:
   return render template('register.html',error='Please fill all fields')
  hash=bcrypt.hashpw(password.encode('utf-8'),bcrypt.gensalt())
  query = "SELECT * FROM USER 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 isUser:
   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")
   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)
```

OUTPUT:









Database:

