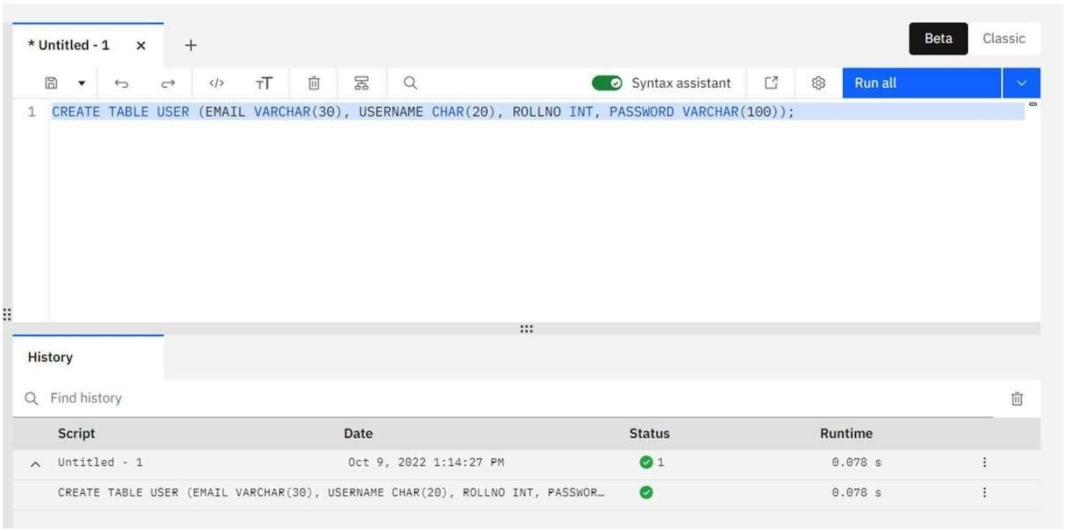
**Assignment -2**

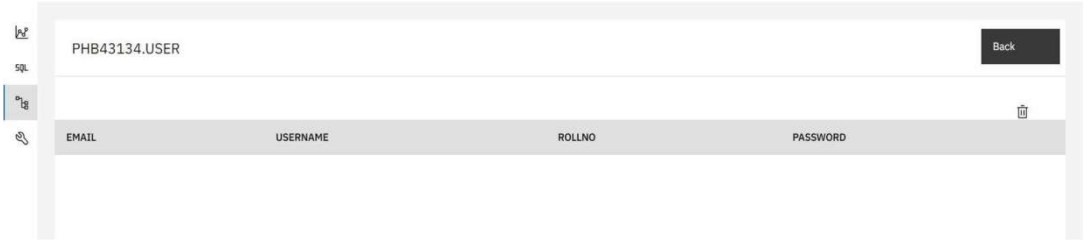
Connect with Database Assignment

| | |
|---|---|
| Assignment Date | 09 October 2022 |
| Student Name | Rohith V |
| Student Roll Number | 621319104045 |
| 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**

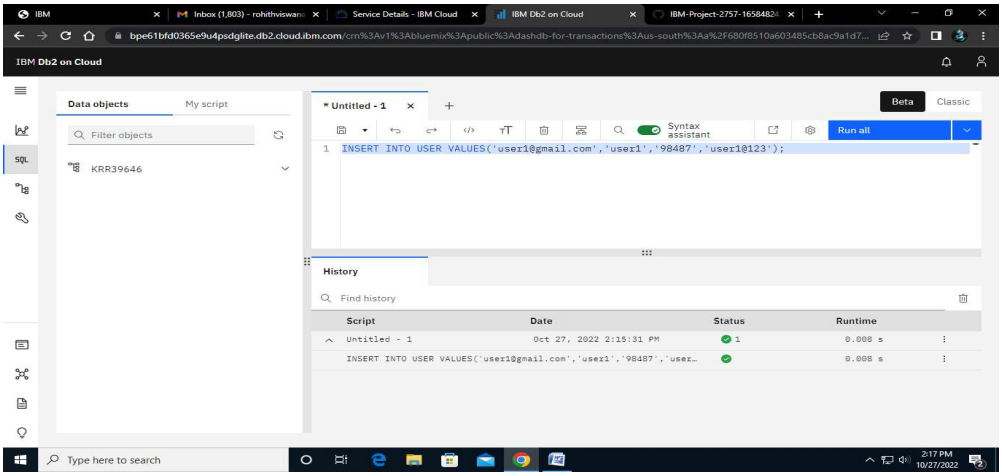
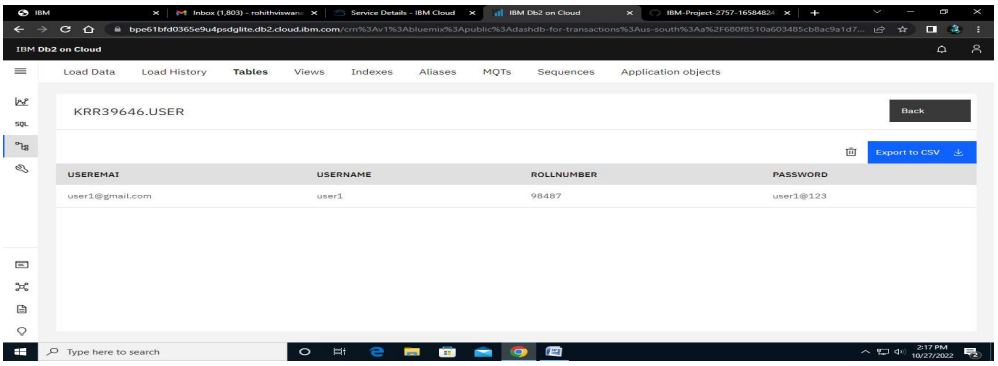


Table View:




UPDATE:

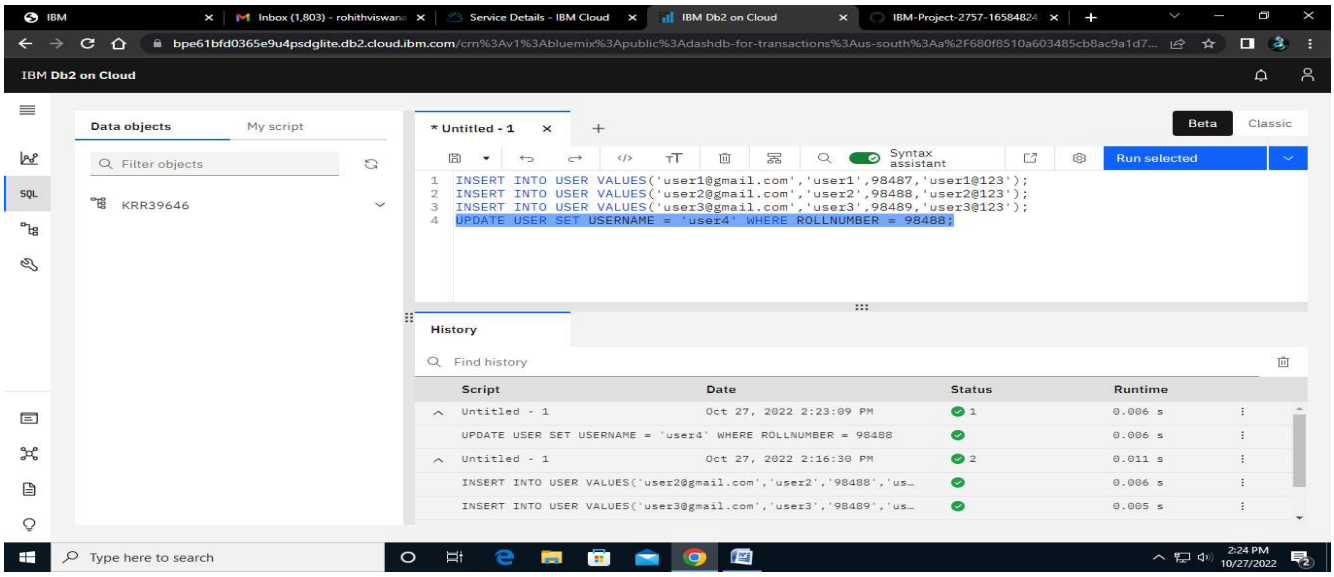
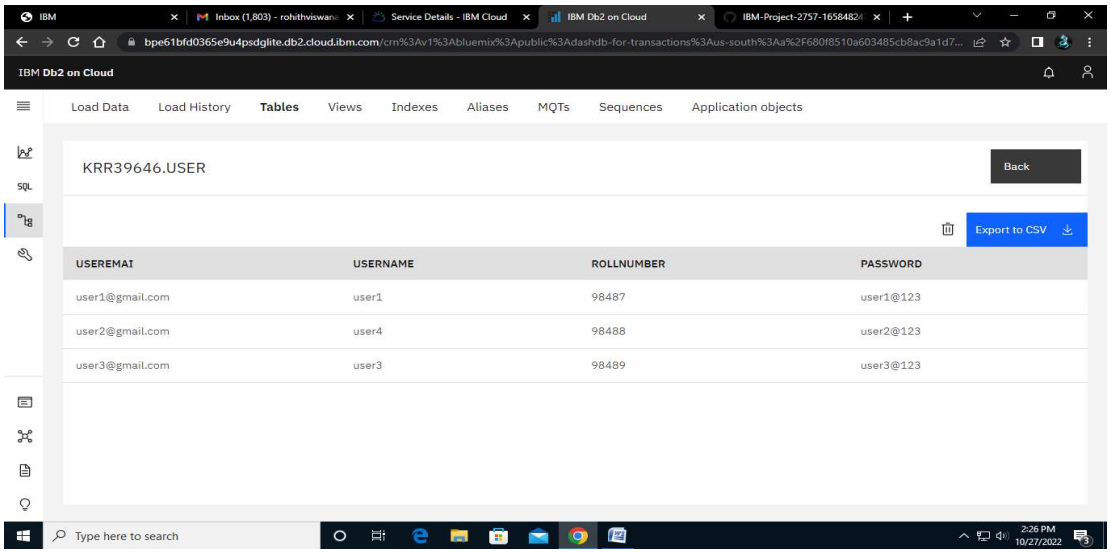



Table View:



DELETE:

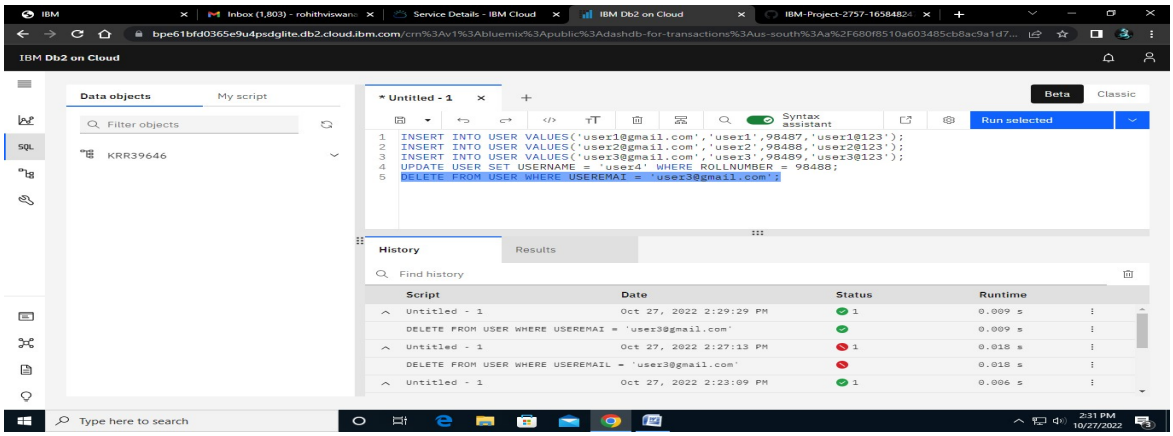
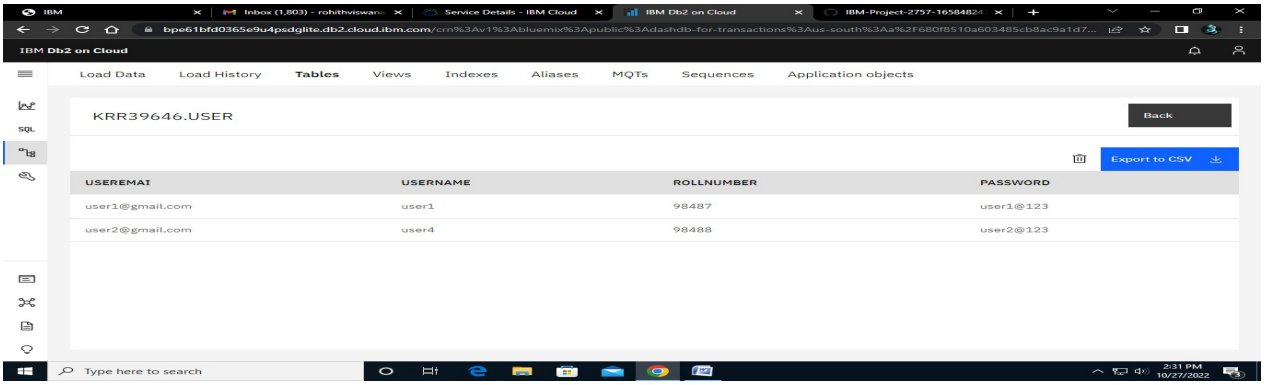



TABLE View:



3. **Connect python with db2.**

Solution:

```
import ibm_db
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME= 1bbf73c5-d84a-4bb0-85b9-ab1a4348f4a4.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=30875;SECURITY=SSL;SSLS erverCertificate=DigiCertGlobalRootCA.crt;PROTOCOL=TCPIP;UID= krr39646 ;PWD=”GbTu7pgBNN76LmGi",'','')
```

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:**

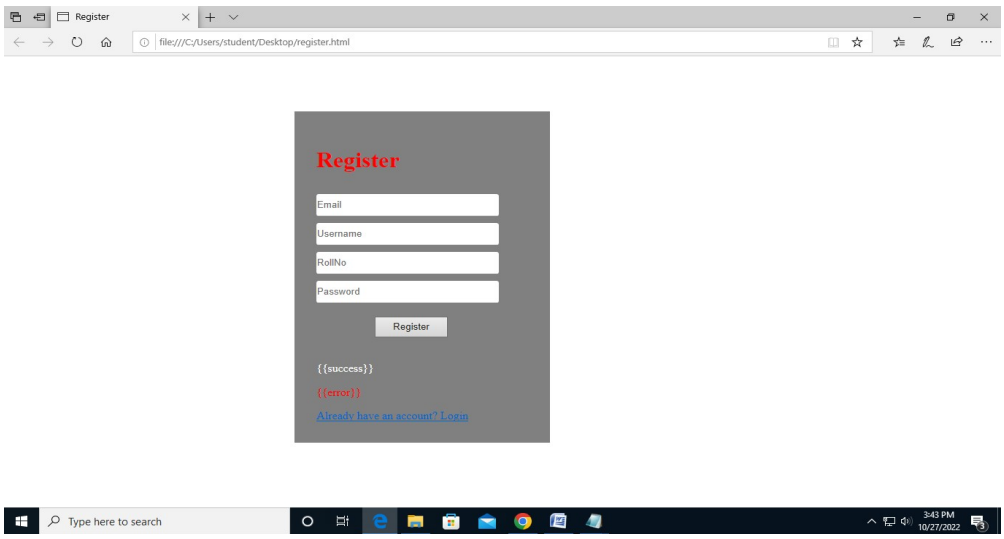
**app.py**

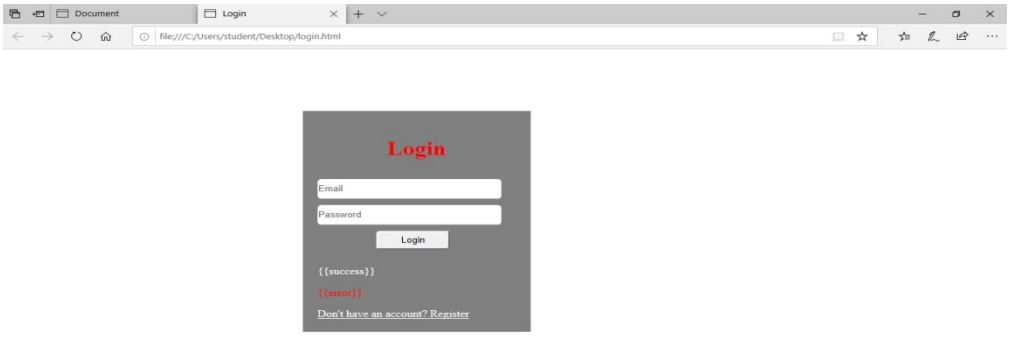
```
from flask import Flask, render_template, request, redirect, url_for, session

import ibm_db
import bcrypt
conn =
ibm_db.connect("DATABASE=bludb;HOSTNAME=;PORT=;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.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'])
```

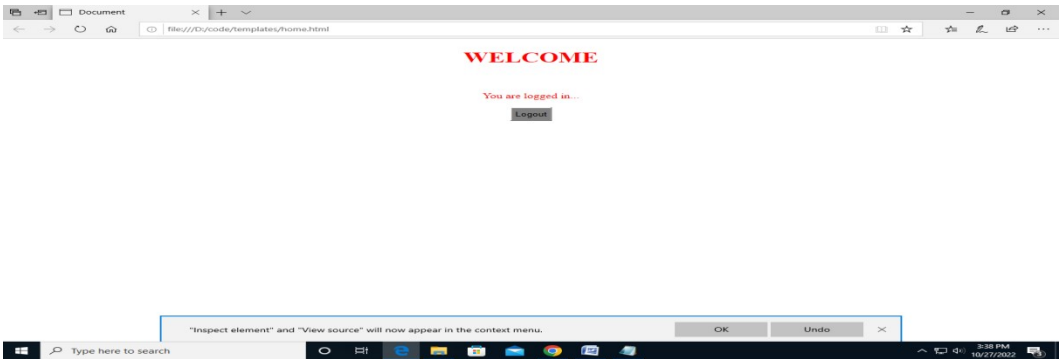
```
def register():
  if request.method == 'POST':
    email = request.form['email']
    username = request.form['username']
    rollNo = request.form['rollNo']
    password = request.form['password']

    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")
    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 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'))
```

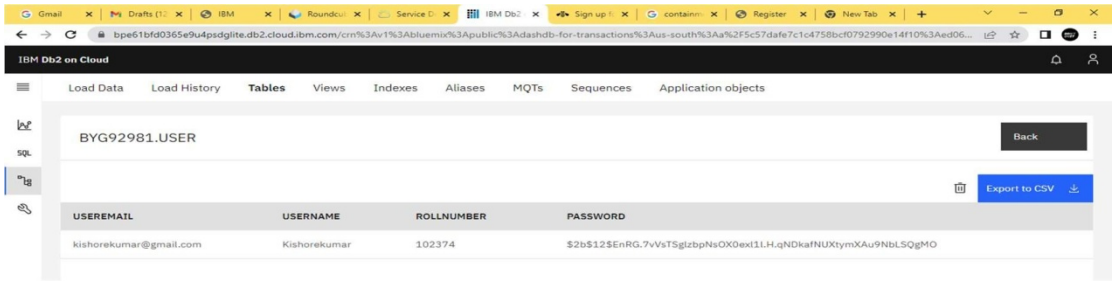
**OUTPUT:**




Document
file:///D:/code/templates/home.html
WELCOME
You are logged in...
Logout
"Inspect element" and "View source" will now appear in the context menu.
OK
Undo
Type here to search
3:38 PM
10/27/2022

**Database:**


IBM Db2 on Cloud
Load Data
Load History
Tables
Views
Indexes
Aliases
MQTs
Sequences
Application objects
BYG92981.USER
Back
Export to CSV
USEREMAIL
USERNAME
ROLLNUMBER
PASSWORD
kishorekumar@gmail.com
Kishorekumar
102374
$2b$12$EnRG.7vVsTSglzbpNsOX0exI1i.H.qNDkafNUXtymXAu9NbLSQgMO