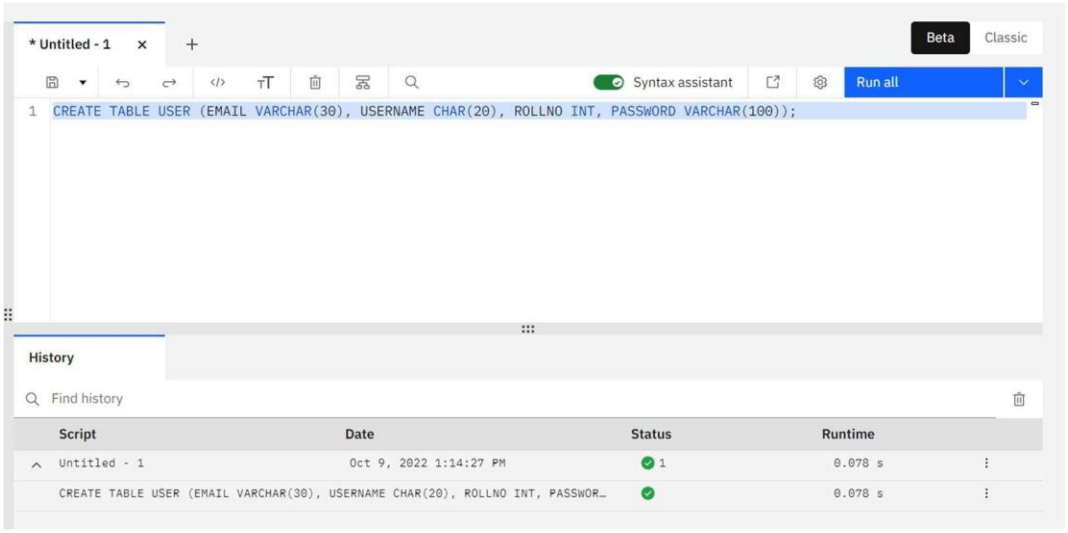
Assignment -2

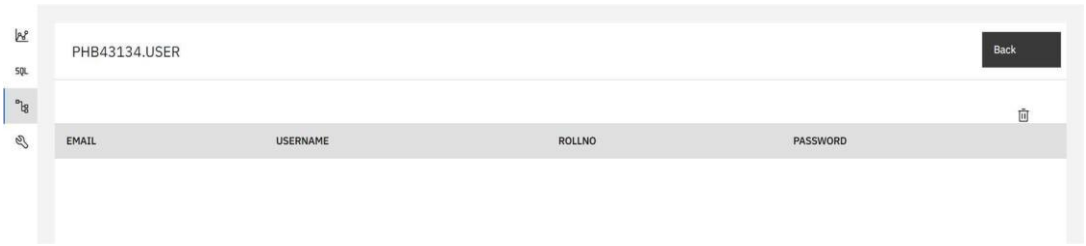
Connect with Database Assignment

Assignment Date	18 october 2022
Student Name	Gopika s
Student Roll Number	510519205006
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

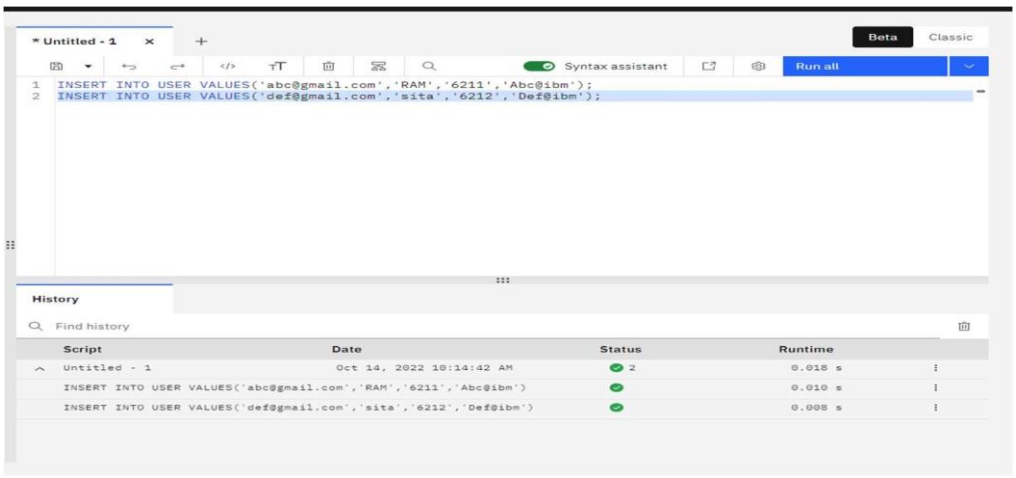
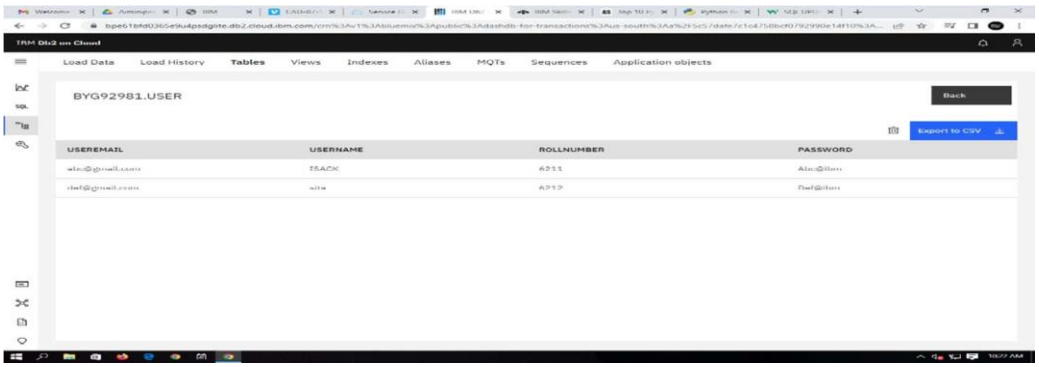


Table View:



UPDATE:

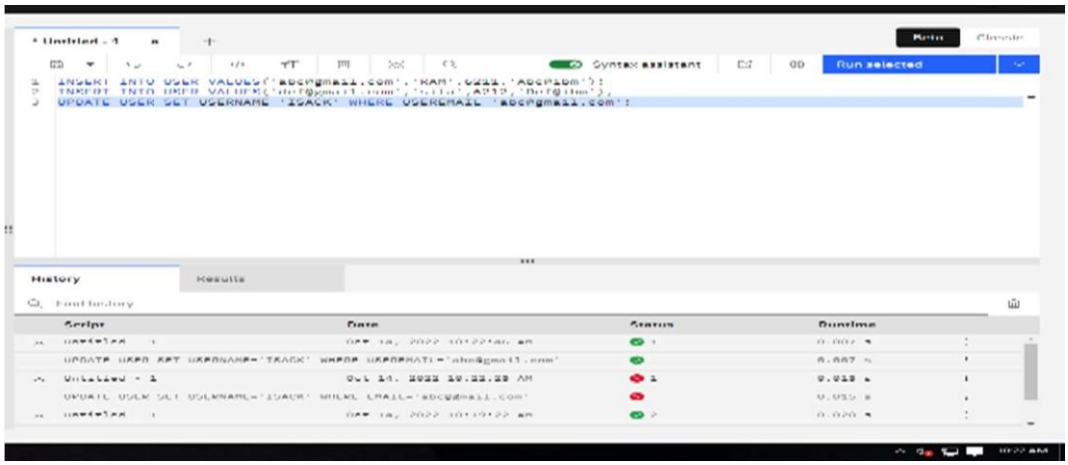
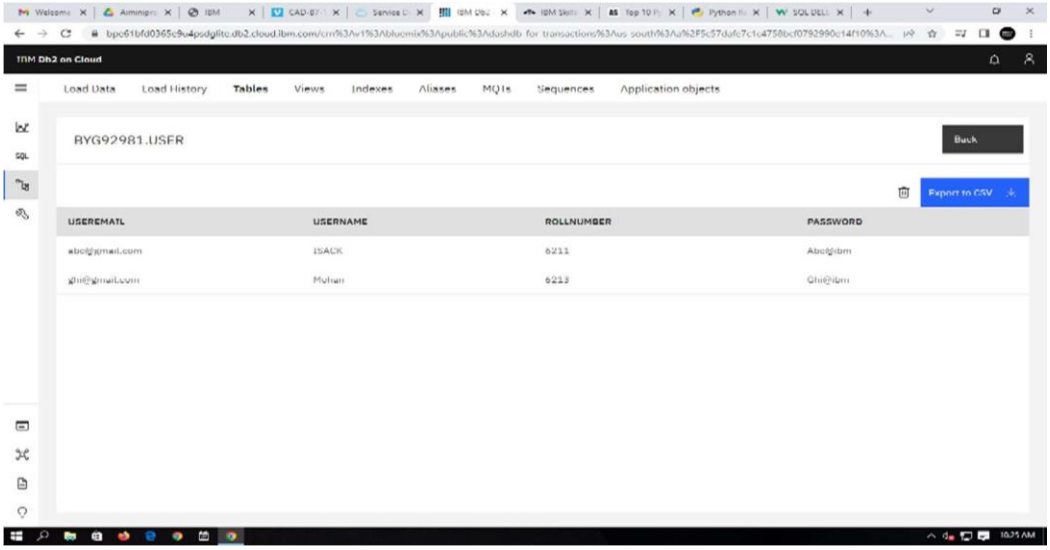


Table View:



DELETE:

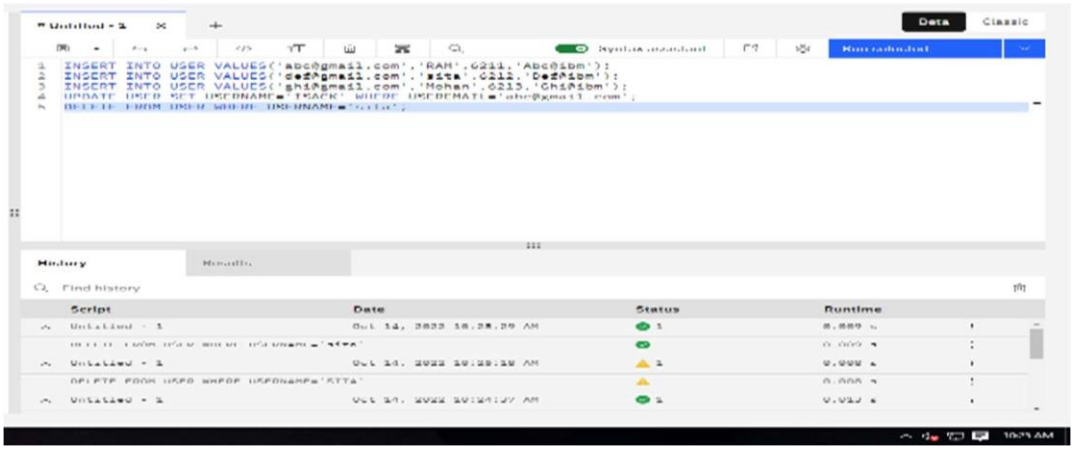
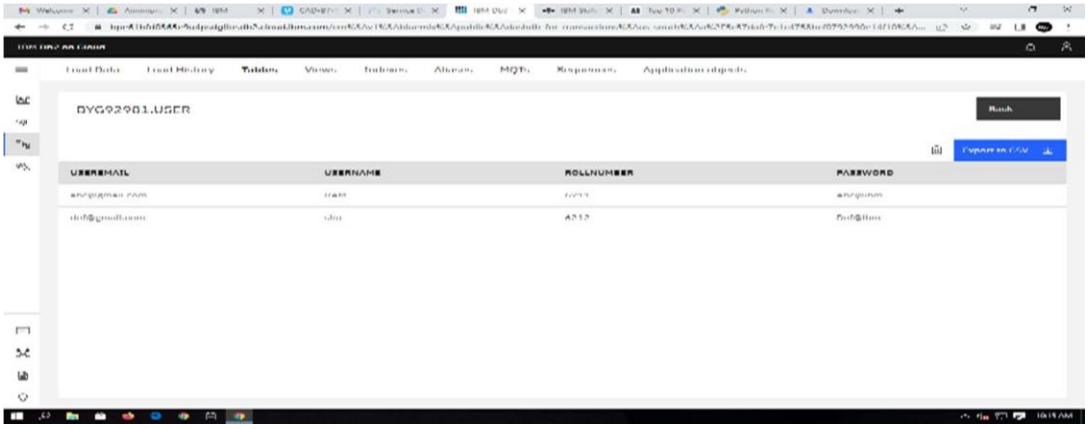


TABLE View:



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=32286;SECURITY=SSL;SSLS erverCertificate=DigiCertGlobalRootCA.crt;PROTOCOL=TCPIP;UID= byg92981;PWD=” 9jZpv8EpbeEMaB6i","")
```

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.

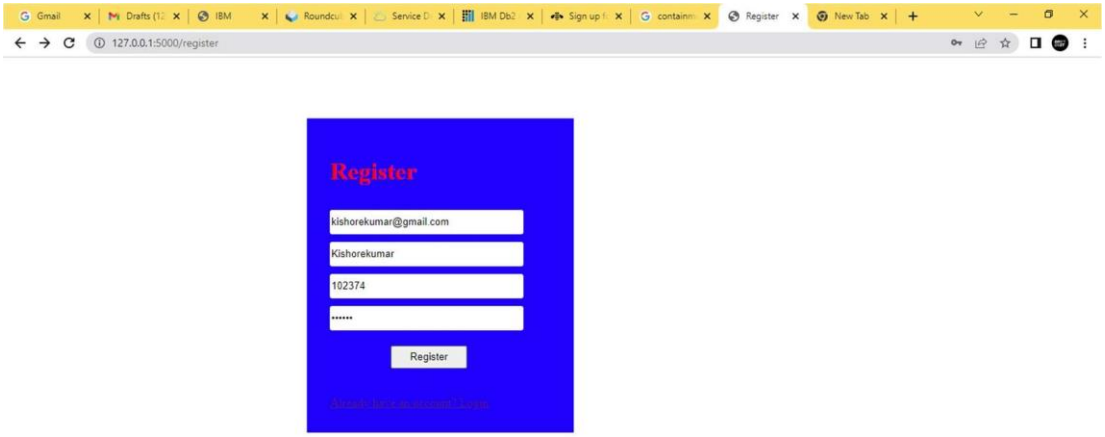
Solution:

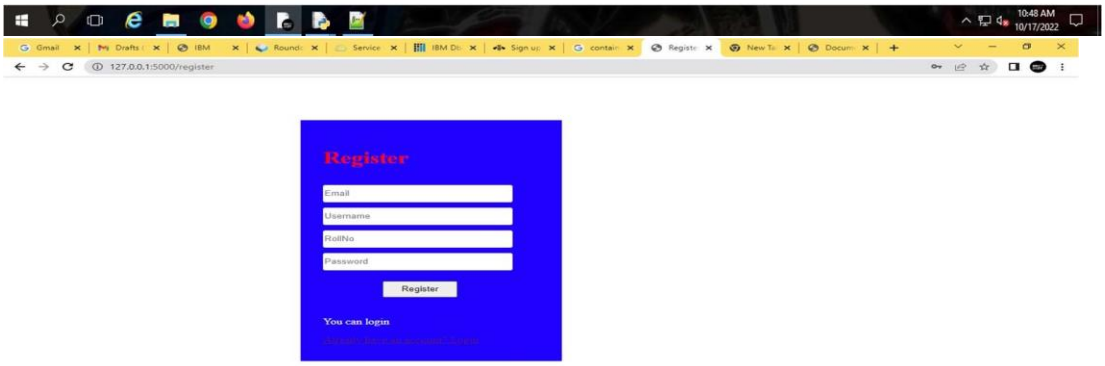
app.py from flask import Flask, render_template, request, redirect, url_for, session

```
import ibm_db
import bcrypt conn
=
ibm_db.connect("DATABASE=bludb;HOSTNAME=;PORT=;SECURITY=SSL;SSLServerCertific
ate=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")
```

```
    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:


127.0.0.1:5000/register
Register
kishorekumar@gmail.com
Kishorekumar
102374
Register

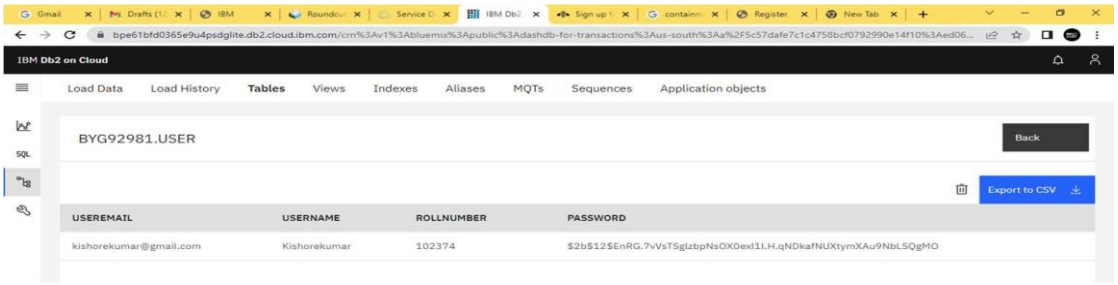

10:48 AM
10/17/2022
127.0.0.1:5000/register
Register
Email
Username
RollNo
Password
Register
You can login


10:50 AM
10/17/2022


127.0.0.1:5000/login
Login
kishorekumar@gmail.com
Login
Don't have an account? Register


WELCOME
You are logged in...
Logout

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.7vVsTSglzbpNsOX0exl1l.H.qNDkafNUXtymXAu9NbLSQgMO