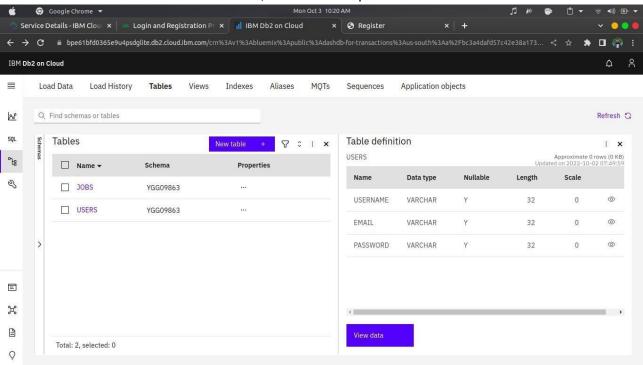
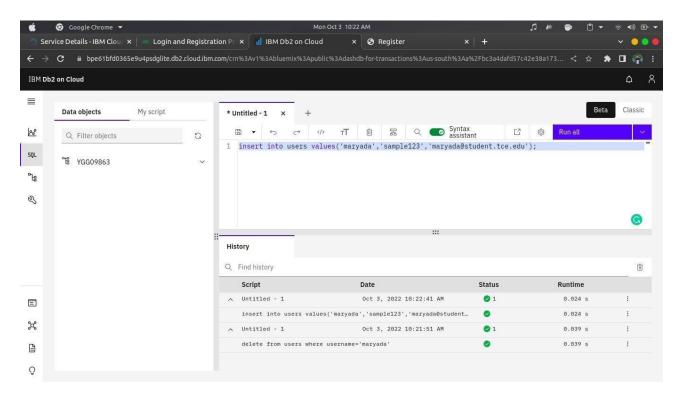
Assignment -2

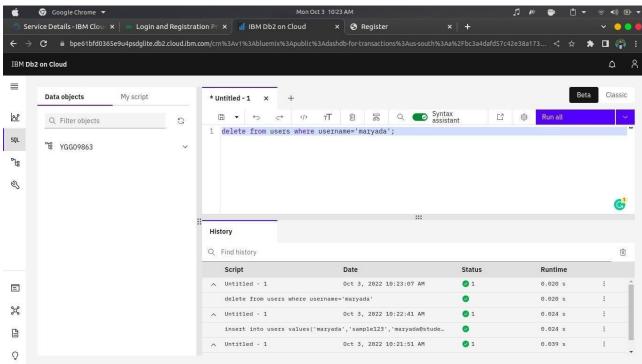
Assignment Date	1 October 2022
Student Name	MAKESH S
Student Roll Number	73771914132
Maximum Marks	2 Marks

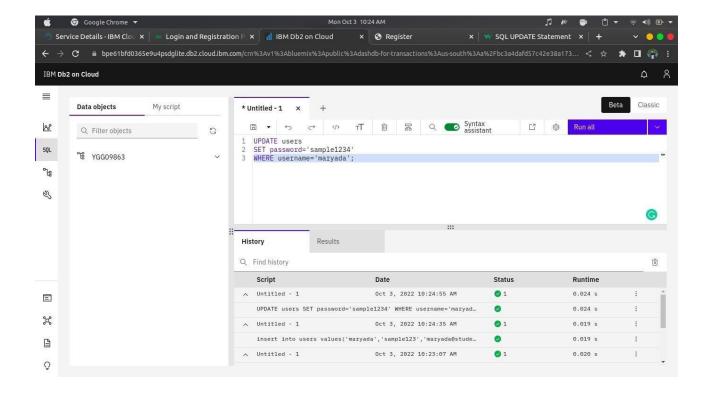
1. Create User table with user with email, username and password.



2. Perform UPDATE, DELETE Queries with user table







3. Connect python code to db2. (Done in question 4)

msg=" "

4. Create a flask app with registration page, login page and 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 show the welcome page app.py:

```
#!/usr/bin/env python3
# -*- coding: utf-8 -*- """
Created on Sun Oct 2 12:32:54 2022
@author: maryada
.....
from flask import
Flask,redirect,request,render template,url for,session import ibm db import
re
app=Flask(__name___)
app.secret key='a'
conn=ibm db.connect("DATABASE=bludb;HOSTNAME=9938aec0-8105-433e-8bf9-
Ofbb7e483086.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32459;Security=SSL;SSL
ServerCertificate=DigiCertGlobalRootCA.crt;UID=ygg09863;PWD=dQXLECjtaCqXsJUt;","","")
@app.route('/')
@app.route('/login',methods=['GET','POST']) def
login(): global userid;
```

```
if request.method == 'POST' and 'username' in request.form and 'password' in request.form:
username=request.form['username']
    password=request.form['password']
    sql="SELECT * FROM users WHERE username=? AND password=?"
stmt=ibm db.prepare(conn,sql)
                               ibm db.bind param(stmt,1,username)
ibm db.bind param(stmt,2,password)
                                        ibm db.execute(stmt)
account=ibm_db.fetch_assoc(stmt)
    print(account)
if account:
      session['Loggedin']=True
session['id']=account['USERNAME']
                                       userid=account['USERNAME']
session['username']=account['USERNAME']
                                               msg="Logged
in successfully!"
                     return render template("index.html",
msg=msg)
              else:
      msg="Incorrect username and password"
  return render template("login.html", msg=msg)
@app.route('/logout') def
logout():
session.pop('loggedin',
None) session.pop('id',
None)
session.pop('username',
None) return
redirect(url for('login'))
@app.route("/register",methods=["GET","POST"])
def register(): msg="" if request.method == 'POST' and 'username' in request.form and
'password' in request.form and 'email' in request.form:
                                                         username=request.form['username']
email=request.form['email']
                               password=request.form['password']
    sql="SELECT * from users WHERE username=?"
    stmt=ibm db.prepare(conn,sql)
ibm_db.bind_param(stmt,1,username)
ibm db.execute(stmt)
                         account=ibm db.fetch assoc(stmt)
    print(account)
                      if account:
                                       msg =
'Account already exists!'
                           elif not re.match(r'[^@]+@[^@]+\.[^@]+',
email):
      msg = 'Invalid email address!'
                                       elif not
re.match(r'[A-Za-z0-9]+', username):
      msg = 'Username must contain only characters and numbers!'
elif not username or not password or not email:
      msg = 'Please fill out the form!'
else:
```

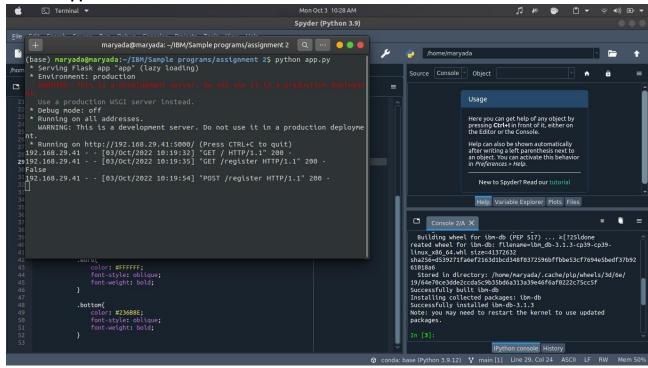
```
insert sql="INSERT INTO users VALUES(?,?,?)"
prep_stmt=ibm_db.prepare(conn,insert_sql)
ibm db.bind param(prep stmt,1,username)
ibm_db.bind_param(prep_stmt,2,email)
                                             ibm_db.bind_param(prep_stmt,3,password)
ibm db.execute(prep stmt)
      msg="You have successfully logged in!"
  elif request.method=="POST":
                                   msg="Please
fill out the form" return
render_template('register.html', msg=msg)
if name ==" main ":
app.run(host='0.0.0.0')
templates folder:
index.html
<!-- Store this code in 'index.html' file inside the 'templates' folder-->
<html>
       <head>
              <meta charset="UTF-8">
              <title> Index </title>
              <link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
       </head>
       <body></br></br></br>
              <div align="center">
              <div align="center" class="border">
                     <div class="header">
                           <h1 class="word">Index</h1>
                     </div></br></br>
                            <h1 class="bottom">
                                   Hi {{session.username}}!!</br> Welcome to the index
page...
                            </h1></br></br>
                            <a href="{{ url for('logout') }}" class="btn">Logout</a> </div>
              </div>
       </body> </html>
login.html:
<!-- Store this code in 'login.html' file inside the 'templates' folder -->
<html>
       <head>
              <meta charset="UTF-8">
```

```
<title> Login </title>
             <link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}"> </head>
      <body></br></br></br></br>
             <div align="center">
             <div align="center" class="border">
                    <div class="header">
                           <h1 class="word">Login</h1>
                    </div></br></br>
                    <h2 class="word">
                           <form action="{{ url for('login') }}" method="post">
                            <div class="msg">{{ msg }}</div>
                                  <input id="username" name="username" type="text"
placeholder="Enter Your Username" class="textbox"/></br>
                                 <input id="password" name="password" type="password"
placeholder="Enter Your Password" class="textbox"/></br></br>
                                 <input type="submit" class="btn" value="Sign In"></br>
                           </form>
                    </h2>
                    Don't have an account? <a class="bottom"</pre>
href="{{url for('register')}}"> Sign Up here</a>
             </div>
             </div>
      </body>
</html> register.html:
<!-- Store this code in 'register.html' file inside the 'templates' folder -->
<html>
      <head>
             <meta charset="UTF-8">
             <title> Register </title>
             <link rel="stylesheet" href="{{ url for('static', filename='style.css') }}"> </head>
      <body></br></br></br>
             <div align="center">
             <div align="center" class="border">
                    <div class="header">
                           <h1 class="word">Register</h1>
                    </div></br></br>
                    <h2 class="word">
                           <form action="{{ url for('register') }}" method="post">
                            <div class="msg">{{ msg }}</div>
                                <input id="username" name="username" type="text"
placeholder="Enter Your Username" class="textbox"/></br>
                                 <input id="password" name="password" type="password"
placeholder="Enter Your Password" class="textbox"/></br>
```

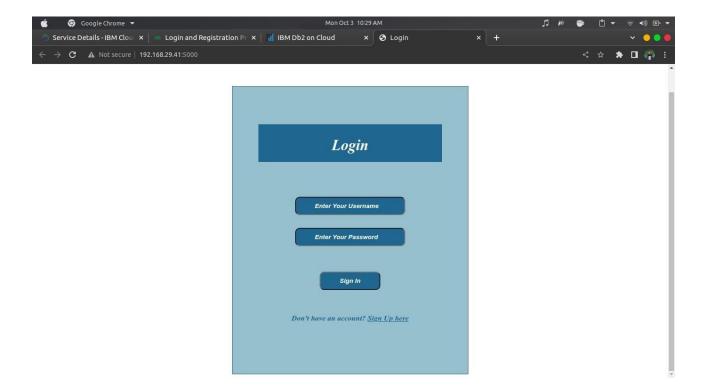
```
<input id="email" name="email" type="text"
placeholder="Enter Your Email ID" class="textbox"/></br>
                                   <input type="submit" class="btn" value="Sign Up"></br>
                            </form>
                     </h2>
                     Already have an account? <a class="bottom"</pre>
href="{{url_for('login')}}"> Sign In here</a>
              </div>
              </div>
       </body> </html>
static folder: style.css
/* Store this code in 'style.css' file inside the 'static' folder*/
                     .header{ padding: 5px 120px;
                            width:
                             150px; height: 70px;
                             background-color: #236B8E;
                     }
                     .border{ padding: 80px 50px; width:
                            400px; height: 450px; border:
                             1px solid #236B8E;
                             borderradius: 0px;
                             backgroundcolor: #9AC0CD;
                     }
                     .btn { padding: 10px 40px;
                            background-color:
                            #236B8E; color: #FFFFFF;
                            font-style: oblique; font-
                            weight: bold; border-radius:
                             10px;
                     }
                     .textbox{ padding: 10px 40px;
                             background-color: #236B8E; text-
                             color: #FFFFFF; border-radius:
                             10px;
                     }
                     ::placeholder { color:
                            #FFFFFF; opacity:
                             1; font-style:
                             oblique; font-
                             weight: bold;
```

Output:

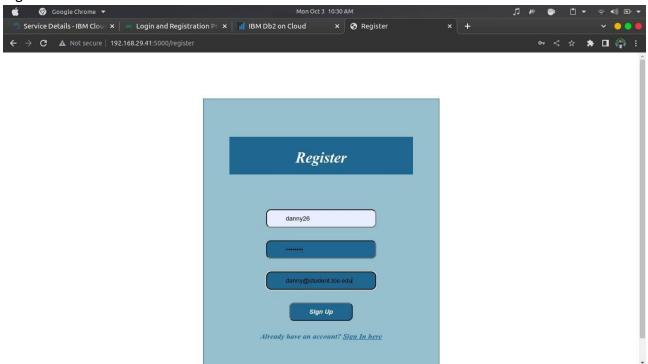
Start the application:

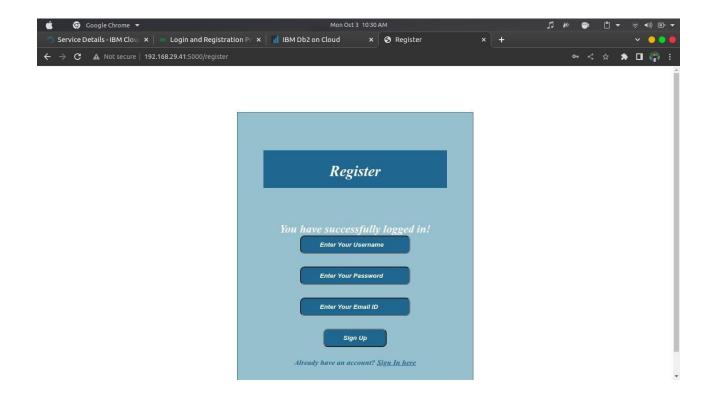


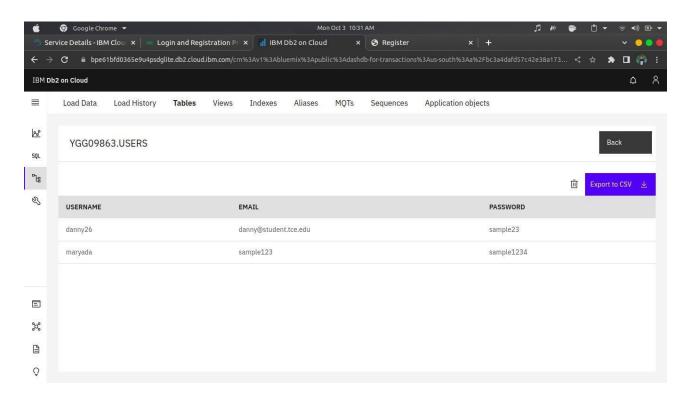
We are invited with login page.



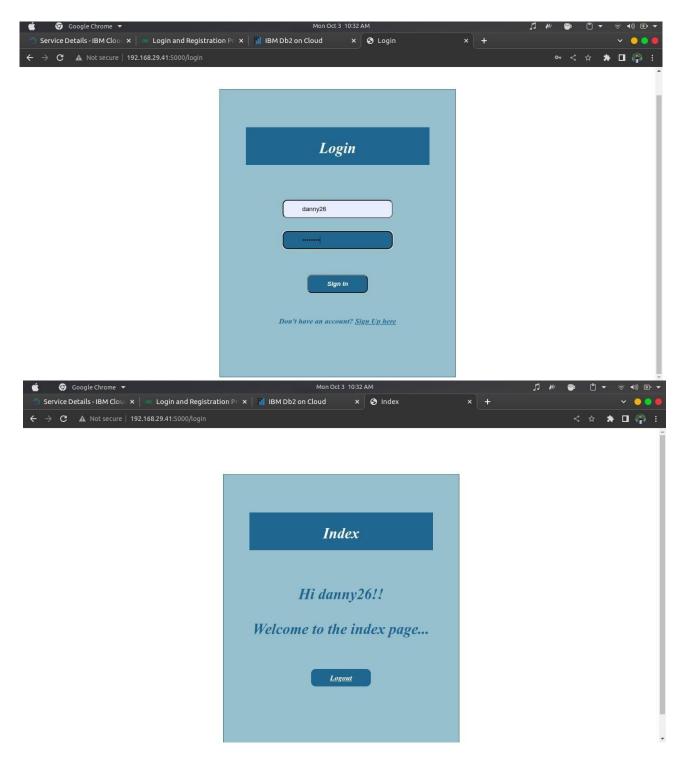
Registration:







Login and Logout:



Logout:

