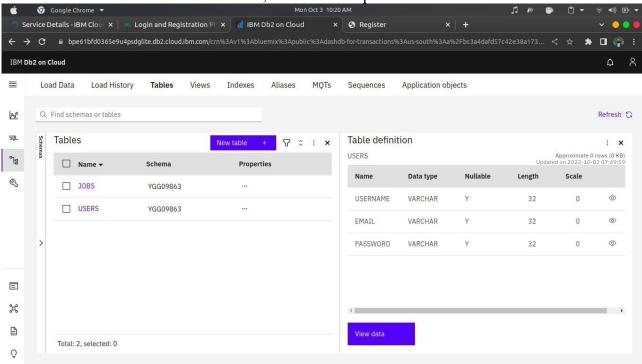
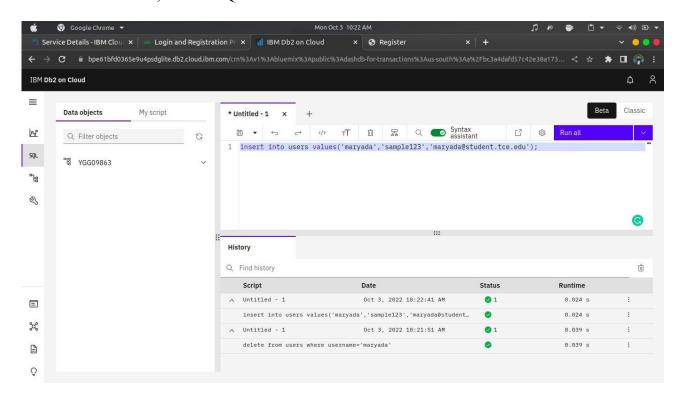
# Assignment -2 IBM CLOUD DB2

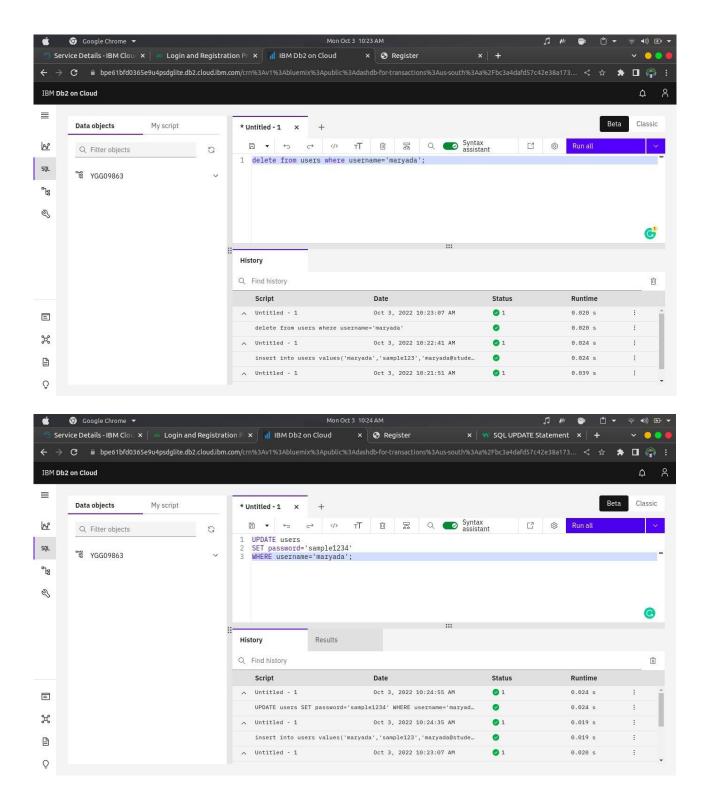
Assignment Date	29 September 2022
Student Name	R.V.Akash
Student Roll Number	310619106007
Maximum Marks	2 Marks

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)
- 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-8bf9-0fbb7e483086.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32459;Security=SSL;SSL ServerCertificate=DigiCertGlobalRootCA.crt;UID=ygg09863;PWD=dQXLECjtaCqXsJUt;","") (a)app.route('/') @app.route('/login',methods=['GET','POST']) def login(): global userid; msg=" " 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'[^{\wedge}@]+^{\otimes}[^{\wedge}@]+^{\otimes}[^{\wedge}@]+^{\otimes}, 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>
       <br/>body></br></br></br>
              <div align="center">
              <div align="center" class="border">
```

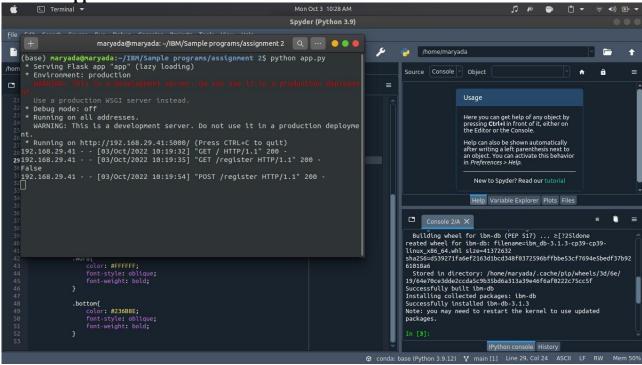
```
<div class="header">
                           <h1 class="word">Index</h1>
                    </div></br></br>
                           <h1 class="bottom">
                                  Hi {{session.username}}!!</br>> Welcome to the index
page...
                           </h1></br></br>
                           <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>
             <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"</pre>
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></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>
             k 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"</pre>
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;
                           border-radius: 0px;
                           background-color: #9AC0CD;
                    }
                    .btn {
                           padding: 10px 40px;
                           background-color: #236B8E;
```

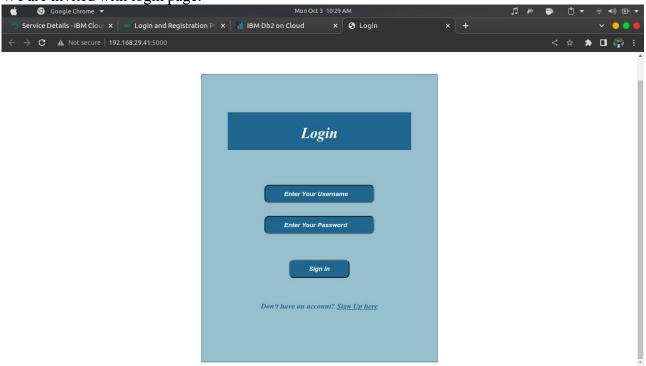
```
color: #FFFFFF;
       font-style: oblique;
       font-weight: bold;
       border-radius: 10px;
}
.textbox{
       padding: 10px 40px;
       background-color: #236B8E;
       text-color: #FFFFF;
       border-radius: 10px;
}
::placeholder {
       color: #FFFFFF;
       opacity: 1;
       font-style: oblique;
       font-weight: bold;
}
.word\{
       color: #FFFFFF;
       font-style: oblique;
       font-weight: bold;
}
.bottom\{
       color: #236B8E;
       font-style: oblique;
       font-weight: bold;
}
```

**Output:** 

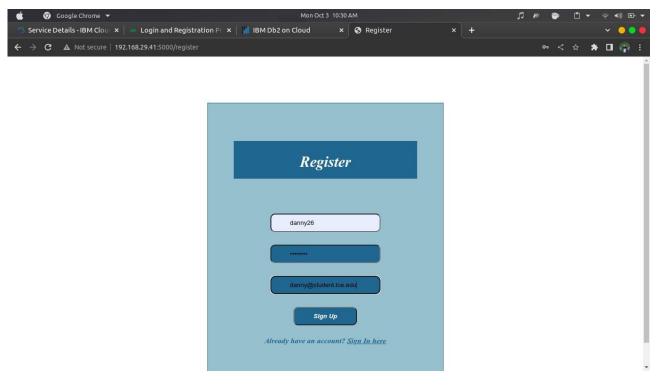
**Start the application:** 

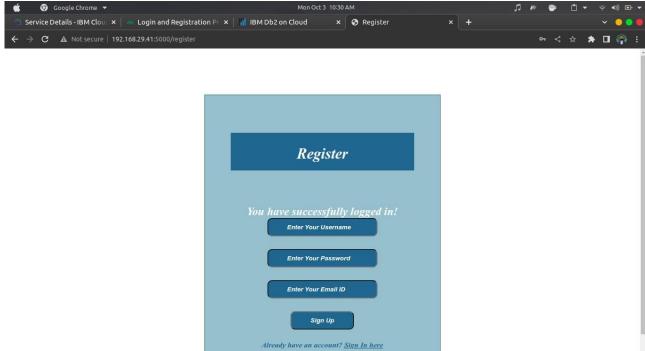


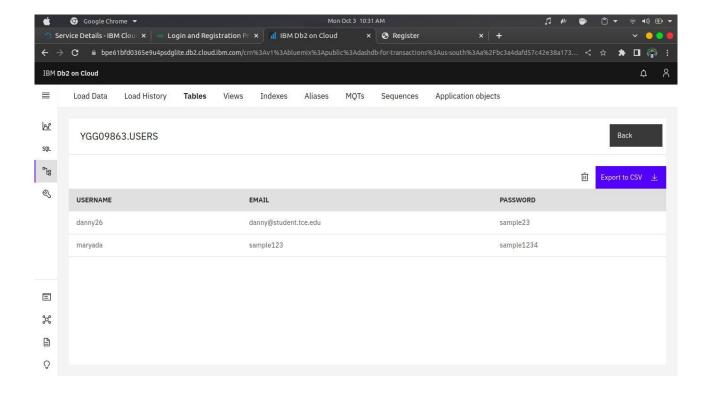
We are invited with login page.



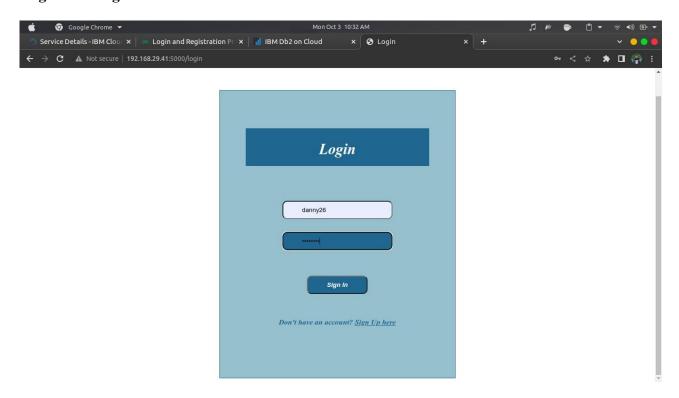
# Registration:

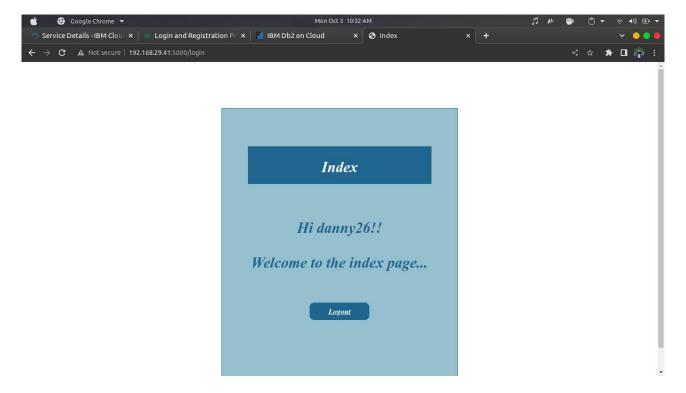






### **Login and Logout:**





# Logout:

