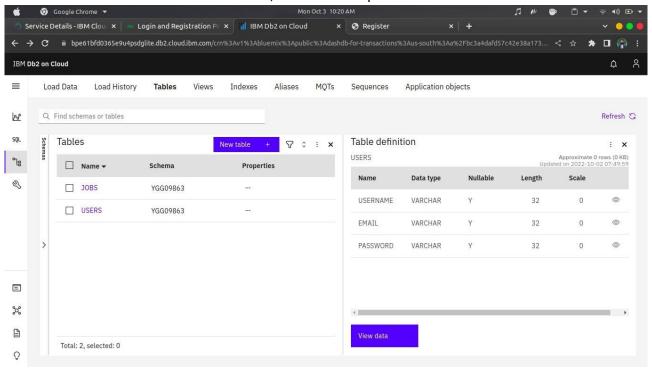
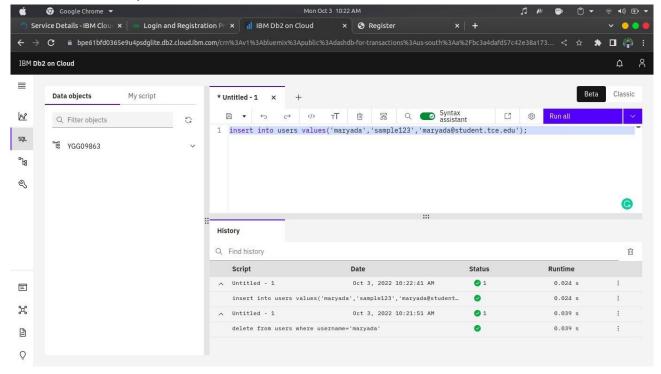
## **Assignment -2**

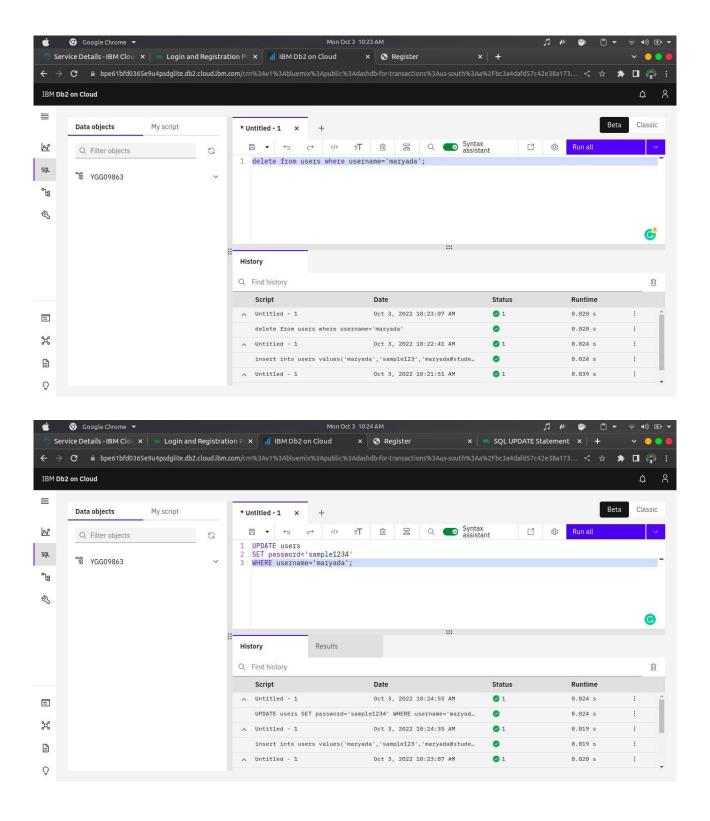
Assignment Date	1 October 2022
Student Name	MADHUSUTHANAN G
Student Roll Number	73771914131
Maximum Marks	2 Marks

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-
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;
  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!"
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>
```

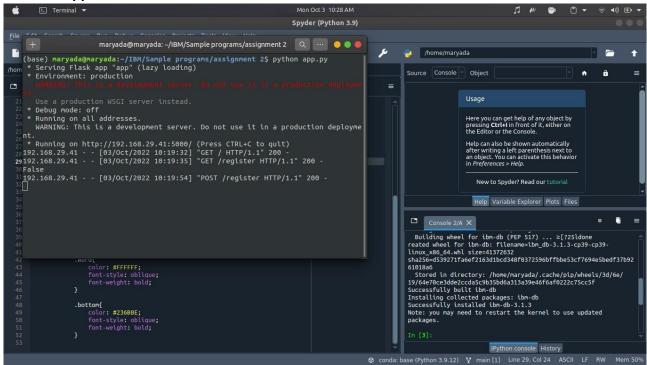
```
<meta charset="UTF-8">
             <title> Index </title>
             <link rel="stylesheet" href="{{ url for('static', filename='style.css') }}">
      </head>
      <body></br></br></br>
             <div align="center">
             <div align="center" class="border">
                    <div class="header">
                           <h1 class="word">Index</h1>
                    </div></br></br>
                           <h1 class="bottom">
                                  Hi {{session.username}}!!</br></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"
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></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*/
```

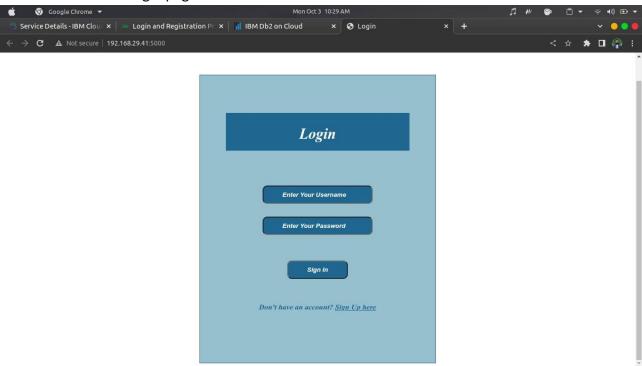
```
.header{ padding: 5px
       120px; width:
       150px; height:
       70px;
       background-color: #236B8E;
}
.border{ padding: 80px 50px; width:
       400px; height: 450px; border:
       1px solid #236B8E; border-
       radius: 0px; background-
       color: #9AC0CD;
}
.btn { padding: 10px 40px;
       background-color: #236B8E;
       color: #FFFFFF; font-style:
       oblique; font-weight:
       bold;
       border-radius: 10px;
}
.textbox{ padding: 10px 40px;
       background-color: #236B8E;
       text-color: #FFFFFF;
       border-radius: 10px;
}
::placeholder { color:
       #FFFFFF; opacity:
       1; font-style:
       oblique;
       font-weight: bold;
}
.word{ color: #FFFFF;
       font-style:
       oblique;
       font-weight: bold;
}
.bottom{ color: #236B8E;
       font-style:
       oblique; font-
       weight: bold;
}
```

## **Output:**

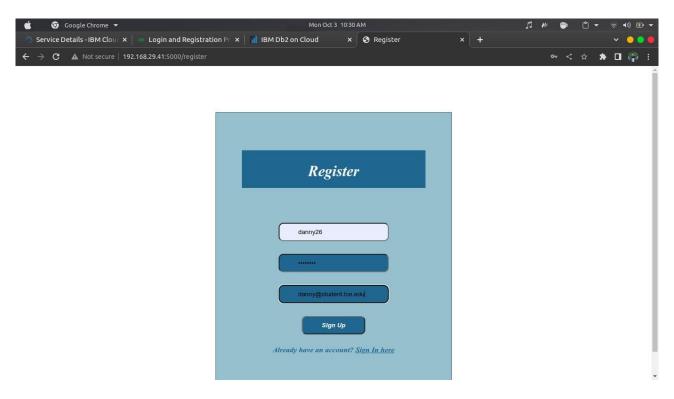
Start the application:

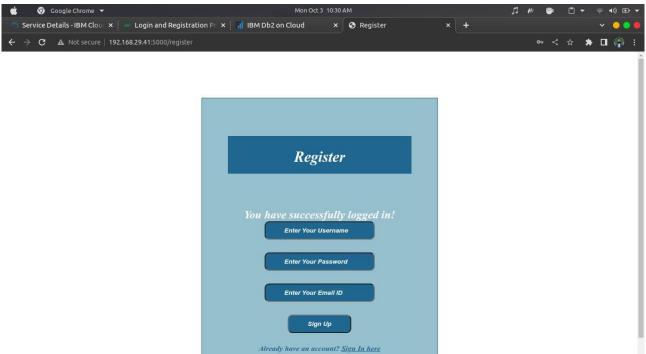


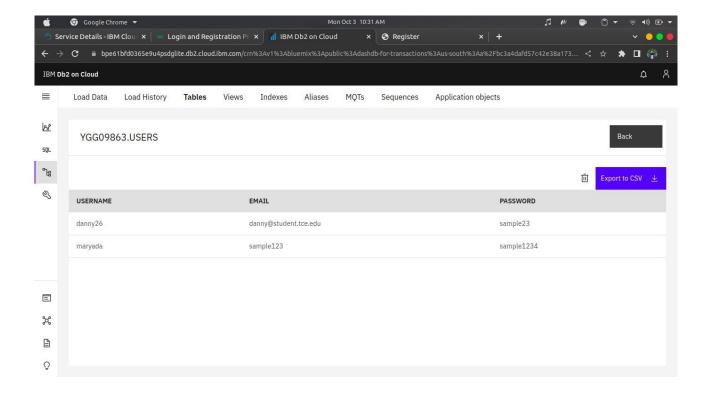
We are invited with login page.



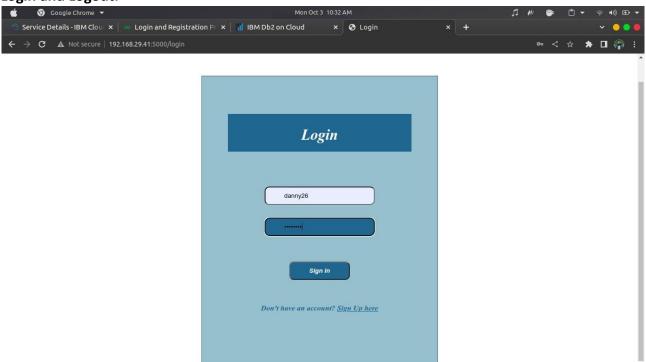
Registration:

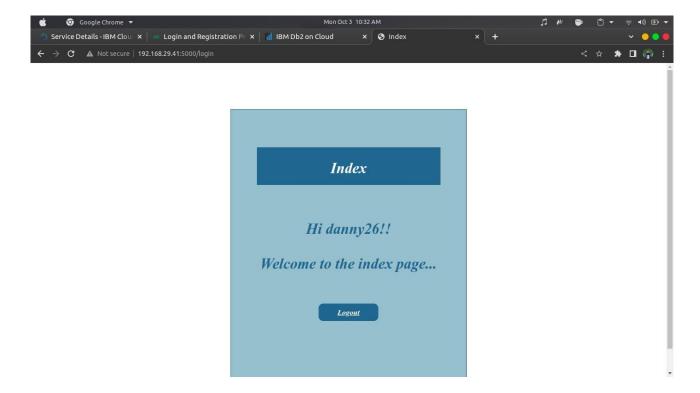






## **Login and Logout:**





## Logout:

