Assignment -1

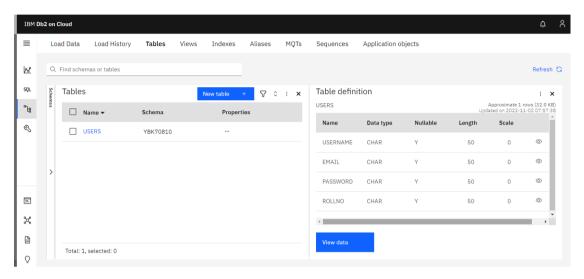
Python Flask

Assignment Date	27 September 2022
Student Name	Mr. Naveenkumaran R
Student Roll Number	711319CS101
Maximum Marks	2 Marks

Question-1:

1. Create User table with user with email, username, roll number, password.

Solution:

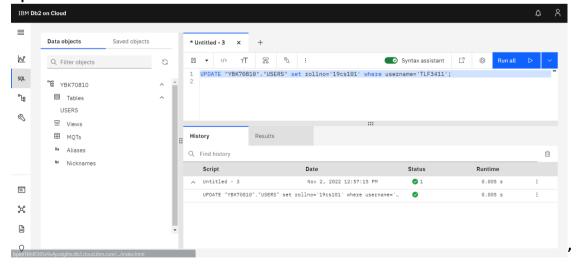


Question-2:

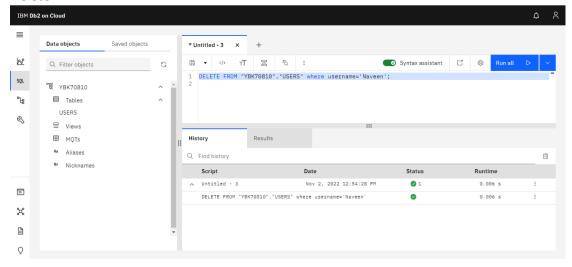
2. Perform UPDATE, DELETE Queries with user table?

Solution:

Update



Delete



Question-3:

3. Connect python code to db2?

Solution:



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?

Solution:

Display.html

```
display.html X
templates > 💠 display.html > 😥 html
      <!DOCTYPE html>
      <html lang="en">
         <meta charset="UTF-8" />
         <meta http-equiv="X-UA-Compatible" content="IE=edge" />
          <meta name="viewport" content="width=device-width, initial-scale=1.0" />
         <link rel="stylesheet" href="../static/CSS/display.css" />
         <title>Welcome Page</title>
        <body style="background-color: ■ blanchedalmond;">
         <div class="card">
             <h1>Welcome</h1>
             <h2>{{name}}</h2>
             {{ msg }}
             <button>IBM</button>
 22
```

Login.html

```
login.html ×
     <!DOCTYPE html>
     khtml lang="en">
       <meta charset="UTF-8" />
       <meta http-equiv="X-UA-Compatible" content="IE=edge" />
       <meta name="viewport" content="width=device-width, initial-scale=1.0" />
       <title>Login Page</title>
       <link rel="stylesheet" href="../static/CSS/style.css" />
      <div class="container">
           <h1>Login Form</h1>
           <form action="/login" method="post">
             <div class="msg">{{ msg }}</div>
            <label for="username"><b>Username:</b></label>
            <input type="text" name="username" placeholder="Enter Your Username" id="username" required />
<label for="password"><b>Password:</b></label>
             <input type="password" name="password" placeholder="Enter Your Password" id="password" required />
             <button type="submit" id="button" class="registerbtn">Login</button>
         <div class="note mt-3 text-center">
           Don't have an account yet? Click here to <a href="/">register! </a>
```

Register.html

```
register.html ×
templates > ♦ register.html > ♦ html
      <!DOCTYPE html>
      <html lang="en">
       <form action="http://localhost:3030/" method="post">
          <div class="container"</pre>
            <h1>Registration page</h1><hr />
            <div class="msg">{{ msg }}</div>
            <label for="username">
b>Username:</b></label>
           <input type="text" placeholder="Enter your Username" name="username" id="username" required />
           <label for="email"><b>Email:</b></label>
           <input type="text" placeholder="Enter your Email" name="email" id="email" required />
<label for="rollno"><b>Roll number:</b></label>
            <input type="text" id="rollno" name="rollno" placeholder="Enter your Rollno" />
            <label for="password"><b>Password:</b></label>
           <input type="password" id="password" name="password" placeholder="Enter your password" />
            <button type="submit" class="registerbtn">Register</button>
           <div class="note mt-3 text-center</pre>
              already have an account ? please login <a href="/login">login! </a>
```

Display.css

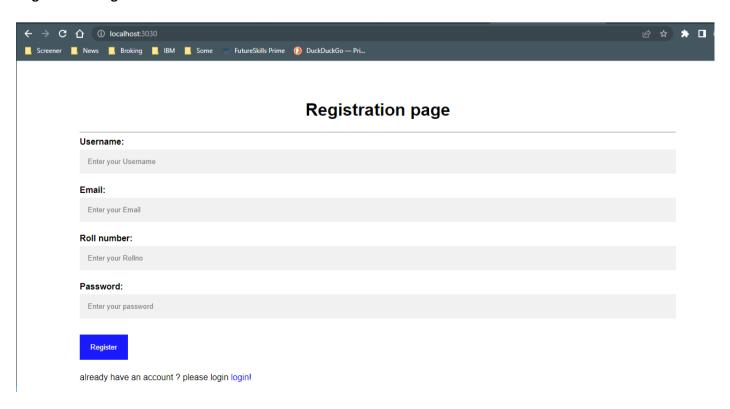
Style.css

```
# style.css X
      body {
        font-family: Arial, Helvetica, sans-serif;
background-color: ■white
        box-sizing: border-box;
       .container {
        padding: 100px;
        background-color: ■white;
        margin: 10px;
        text-align: center;
        text-decoration: none;
        color: □blue;
       input {
        width: 100%;
        padding: 15px;
        margin: 5px 0 22px 0;
        display: inline-block;
        border: none;
background: ■#f1f1f1;
       .registerbtn {
        background-color: □blue;
        color: ■white;
        padding: 16px 20px;
        margin: 8px 0;
        border: none;
cursor: pointer;
        opacity: 0.9;
       .registerbtn:hover {
        opacity: 1;
```

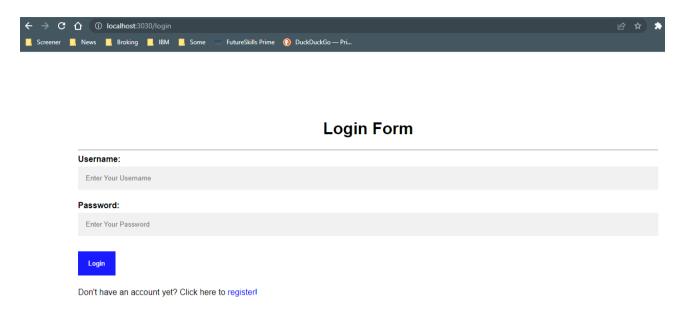
App.py

```
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app.py > ...
                   ibm_db.bind_param(prep_stmt, 4, rollno)
                   ibm_db.execute(prep_stmt)
                   msg = 'You have successfully registered !'
           elif request.method == 'POST':
              msg = 'Please fill out the form !'
           return render_template('register.html', msg = msg)
      @app.route('/login',methods =['GET', 'POST'])
      def login():
           global userid
          msg = ''
           if request.method == 'POST' :
               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('display.html', msg = msg, name = account['USERNAME'])
                   msg = 'Incorrect username / password !'
           return render_template('login.html', msg = msg)
      if <u>__name__</u> == '__main__':
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         app.run("localhost",3030,True)
```

Registration Page



Login Page



Welcome Page

