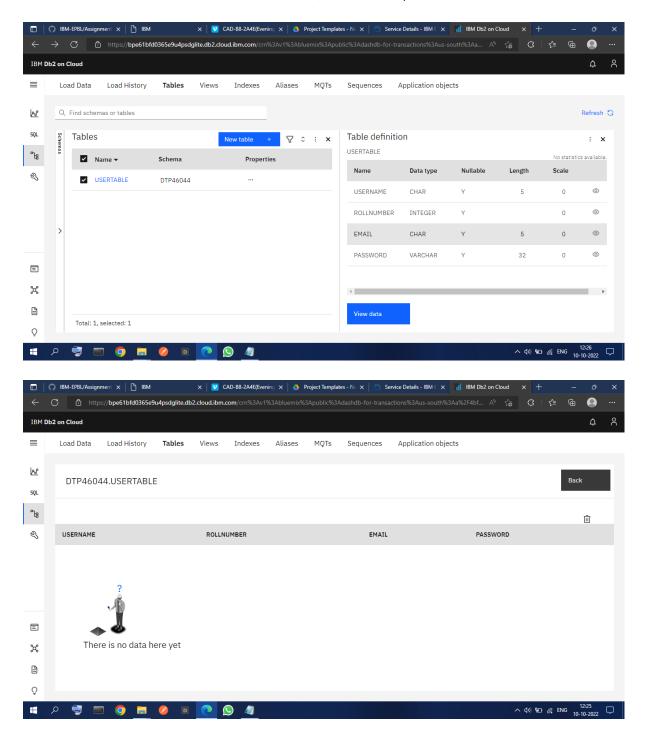
# Assignment -2 IBM CLOUD DB2

Assignment Date	29 September 2022
Student Name	SUBIKSHA R
Student Roll Number	713319CS147
Maximum Marks	2 Marks

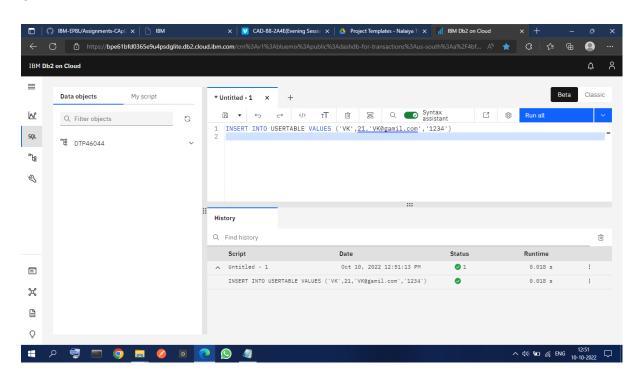
#### **Questions:**

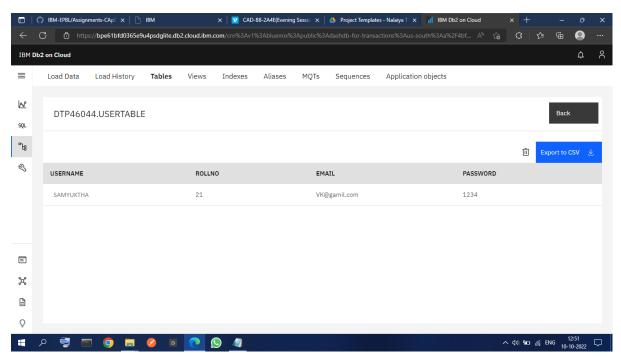
1. Create User table with user with email, username, roll number, password.



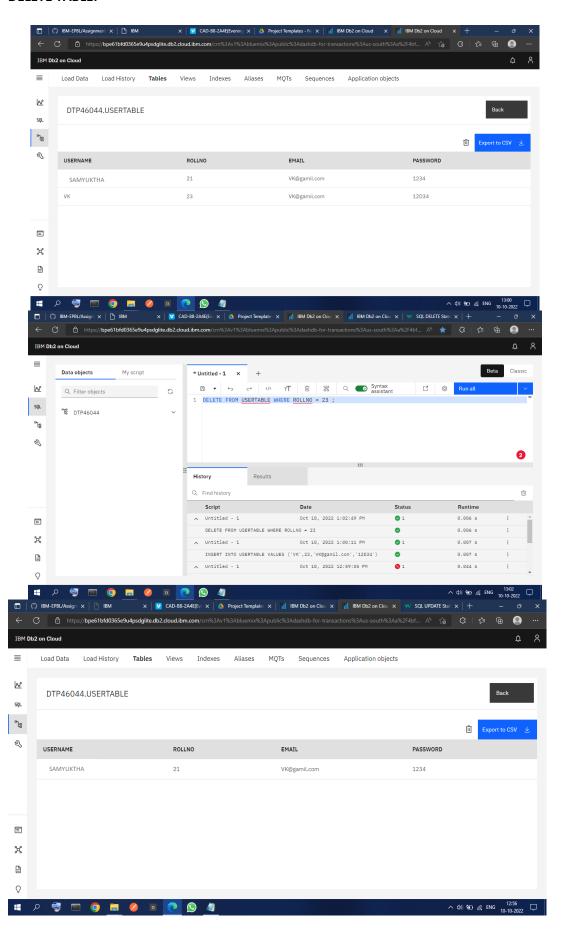
2. Perform UPDATE, DELETE Queries with user table.

#### **UPDATE TABLE:**





#### **DELETE TABLE:**



3. Connect python code to db2.

#### NOTE:- Question 4 contains Question 3 answer

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

#### **Answers**

#### App.py

```
from flask import Flask, render_template, request, redirect, url_for, session
import ibm db
import re
app = Flask( name )
app.secret key = 'a'
conn = ibm db.connect(
    "DATABASE=#;HOSTNAME=#;PORT=32731;USERNAME=#;PASSWORD=#;SECURITY=SSL;SSLSE
RVERCERTIFICATE=DigiCertGlobalRootCA.crt;", "", "")
@app.route("/", methods=['GET', 'POST'])
def register():
   msg = ''
    if request.method == 'POST':
        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 = 'name must contain only characters and numbers !'
        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 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 !'
            msg = 'Logged in successfully !'
            return render_template('dashboard.html', msg=msg)
        else:
            msg = 'Incorrect username / password !'
    return render_template('login.html', msg=msg)
if __name__ == '__main__':
    app.run(host='0.0.0.0')
    # app.run(debug=True)
Register.html
<!DOCTYPE html>
<html lang="en">
<head>
    <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>Smart Fashion register</title>
         <!-- bootstrap css cdn -->
         <link rel="stylesheet"</pre>
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">href="https://stackpath.bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstr
                  integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
         <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-</pre>
awesome/4.7.0/css/font-awesome.css">
         <!-- css stylesheet -->
         <link rel="stylesheet" href="/Assignments/Samyuktha V (Team Member</pre>
1)/Assaignment -2/SRC/static/css/style.css">
         <!-- font styles cdn -->
         <link rel="preconnect" href="https://fonts.gstatic.com">
href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
rel="stylesheet">
         klink
href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
</head>
<body>
         <!-- bootstrap navbar -->
         <!-- navbar ends -->
         <!-- Login form -->
         <div class="login text-center mt-5">
                  <form action="/" method="post">
                           <h2 class="form-text-h2"> Register Form </h2>
                           <div class="msg">{{ msg }}</div><br>
                           <input type="text" class="form-control" name="username"</pre>
placeholder="Enter Your Username" id="username"
                                    required> <br>
                           <input type="email" class="form-control" name="email"</pre>
placeholder="Enter Your Email ID" id="email"
                                    required><br>
                           <input type="password" class="form-control" name="password"</pre>
placeholder="Enter Your Password" id="password"
                                   required><br>
                           <button type="submit" id="button" class="btn btn-primary">
Register </button>
                           <div class="note mt-3 text-center">
                                    <!--Register form -->
```

```
 Already have an Account ? Please <a href="/login">Login!
                    </a>
                </div>
        </form>
    </div>
</body>
</html>
Login.html
<!DOCTYPE html>
<html lang="en">
<head>
    <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>Smart Fashion Login</title>
    <!-- favicon -->
    <!-- <li>k rel="shortcut icon" href="/assets/img/favicon.ico"
type="image/x-icon"> -->
    <!-- <link rel="icon" href="/assets/img/favicon.ico" type="image/x-icon">
-->
    <link rel="icon" type="image/png" sizes="16x16" href="/assets/img/favicon-</pre>
32x32.png">
    <!-- bootstrap css cdn -->
    <link rel="stylesheet"</pre>
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css
        integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-</pre>
awesome/4.7.0/css/font-awesome.css">
    <!-- css stylesheet -->
    <link rel="stylesheet" href="/Assignments/Samyuktha V (Team Member</pre>
1)/Assaignment -2/SRC/static/css/style2.css">
    <!-- font styles cdn -->
    <link rel="preconnect" href="https://fonts.gstatic.com">
    klink
href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
rel="stylesheet">
```

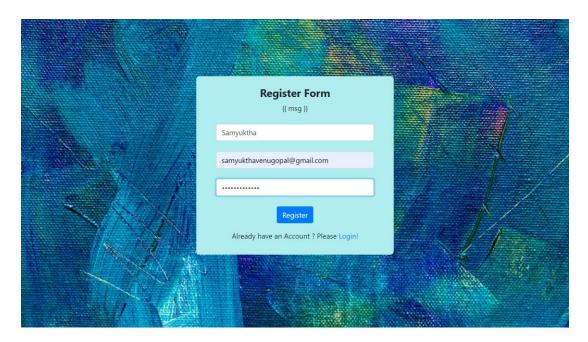
```
link
href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
</head>
<body>
    <div class="login text-center mt-5">
        <form action="/login" method="post">
            <h2 class="form-text-h2"> Login Form </h2>
            <div class="msg">{{ msg }}</div>
            <div class="form-group mb-3">
                <label class="label" for="username">Username</label>
                <input type="text" class="form-control" placeholder="Username"</pre>
name="username" required>
            </div>
            <div class="form-group mb-3">
                <label class="label" for="password">Password</label>
                <input type="password" class="form-control"</pre>
placeholder="Password" name="password" required>
            </div>
            <button type="submit" id="button" class="btn btn-primary"> Login
</button>
            <div class="note mt-3 text-center">
                <!--Register form -->
                > Don't have an account yet? Click here to <a</p>
                        href="/Assignments/Samyuktha V (Team Member
1)/Assaignment -2/SRC/templates/register.html">register!
                    </a> 
            </div>
        </form>
    </div>
</body>
</html>
Style.css
* {
   margin: 0;
   padding: 0;
}
body{
    background-image: url("https://images.pexels.com/photos/1509534/pexels-
photo-1509534.jpeg?auto=compress&cs=tinysrgb&w=1260&h=750&dpr=1") !important;
```

```
/* background-color: rgb(255, 0, 162) !important; */
   background-position: center;
   background-repeat: no-repeat;
   background-size: cover;
    display: flex;
    flex-direction: column;
    align-items: center;
    justify-content: center;
}
form{
    display: flex;
    flex-direction: column;
    align-items: center;
    justify-content: center;
    background-color:#AFEEEE;
    width: 40%;
    height: 500px;
    border-radius: 10px;
    margin: 100px;
}
h1 {
    margin: 290px;
    width: 43%;
    border: 3px solid #ffffff;
    padding: 10px;
    font-size: 50px;
    font-weight: bolder;
    color: #FAFF00;
}
h2 {
    font-size: large;
    font-weight: bolder;
}
input {
    width: 80% !important;
}
div {
    display: flex;
    align-items: center;
    justify-content: center;
    flex-direction: column;
    width: 90%;
}
.form-text-vk {
```

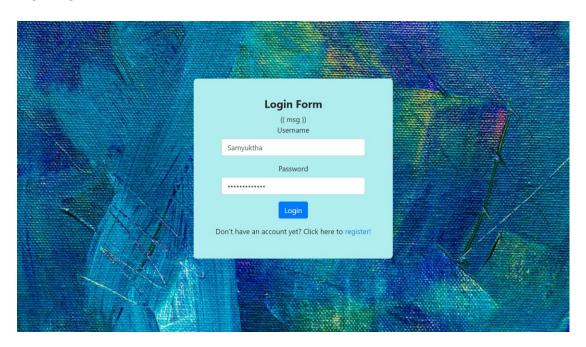
```
font-size: small;
  padding-bottom: 10px;
}
.form-text-h2 {
  font-size: x-large;
  padding-top: 10px;
}
```

## **Output:**

# Registration page:



# Login Page:



### **Welcome Page:**



#### Data Base Table:

