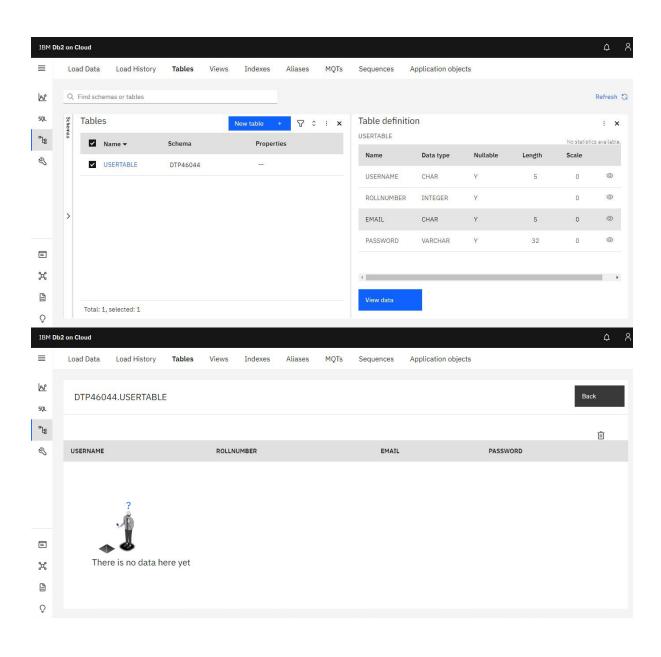
Assignment -2 IBM CLOUD DB2

Assignment Date	26 October 2022
Student Name	MURALI
Student Roll Number	713319CS084
Maximum Marks	2 Marks

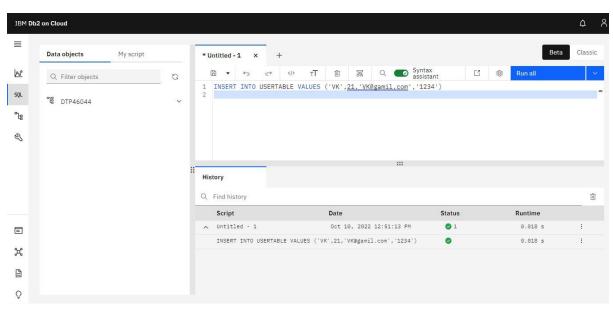
Questions:

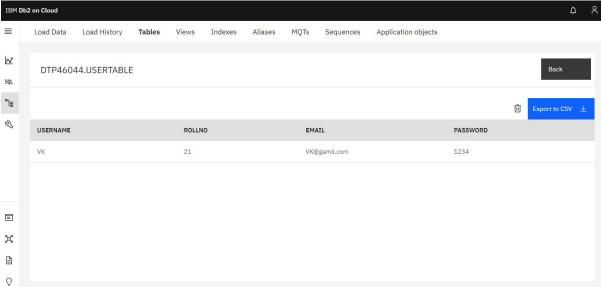
1. Create User table with user with email, username, roll number, password.



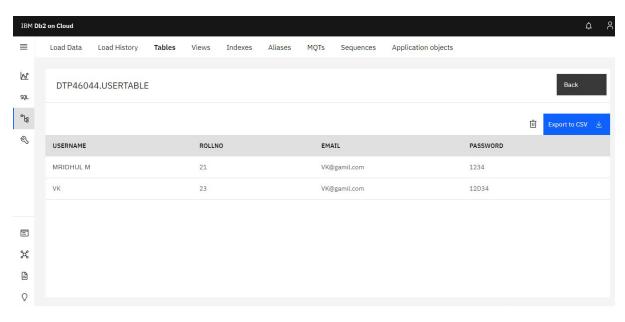
2. Perform UPDATE, DELETE Queries with user table.

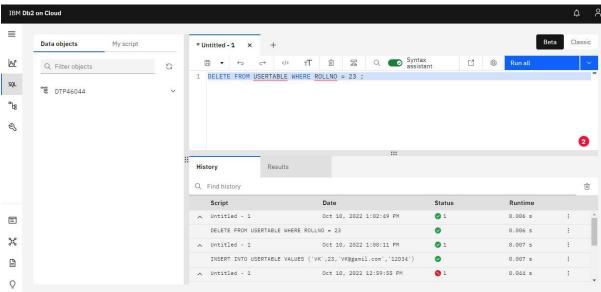
UPDATE TABLE:-

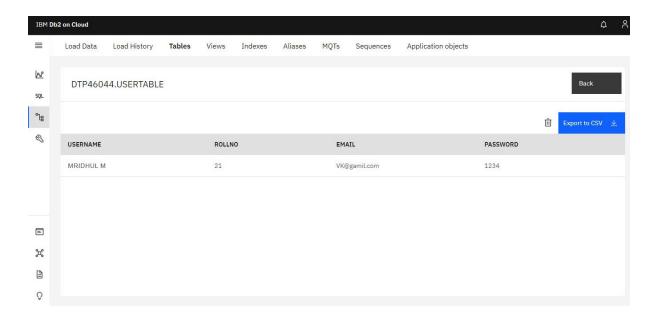




DELETE TABLE:-







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=bludb; HOSTNAME=fbd88901-ebdb-4a4f-a32e-
9822b9fb237b.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32731;USERNAM
E=dtp46044;PASSWORD=95soX0sZGhb4ToUj;SECURITY=SSL;SSLSERVERCERTIFICATE=DigiCer
tGlobalRootCA.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'\lceil ^{\alpha} \rceil + @\lceil ^{\alpha} \rceil + \. \lceil ^{\alpha} \rceil + \. \lceil ^{\alpha} \rceil + \. \rceil, 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)
```

Register.html

```
<!DOCTYPE html>
<html <pre>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/bootstrapcdn.com/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/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/boots
                       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="/static/css/style.css">
            <!-- font styles cdn -->
            <link rel="preconnect" href="https://fonts.gstatic.com">
            k
href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
rel="stylesheet">
            k
href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
</head>
<body>
           <!-- bootstrap navbar -->
            <!-- 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>
            <input type="text" class="form-control" name="username"</pre>
placeholder="Enter Your Username" id="username"
                required>
            <input type="email" class="form-control" name="email"</pre>
placeholder="Enter Your Email ID" id="email" required>
            <input type="password" class="form-control" name="password"</pre>
placeholder="Enter Your Password" id="password"
                required>
            <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 login <a</p>
href="/login">login! </a> 
            </div>
        </form>
    </div>
</body>
</html>
```

Login.html

```
<!DOCTYPE html>
<html Lang="en">
<html Lang="en"
<html Lang="en">
<html Lang="en">
<html Lang="en">
<html Lang="en"
<html Lang="en">
<html Lang="en"
<html Lang="en">
<html Lang="en"
<html Lang=
```

```
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="/static/css/style2.css">
    <!-- font styles cdn -->
    <link rel="preconnect" href="https://fonts.gstatic.com">
    k
href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
rel="stylesheet">
    k
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="/">register! </a> 
            </div>
        </form>
    </div>
</body>
</html>
```

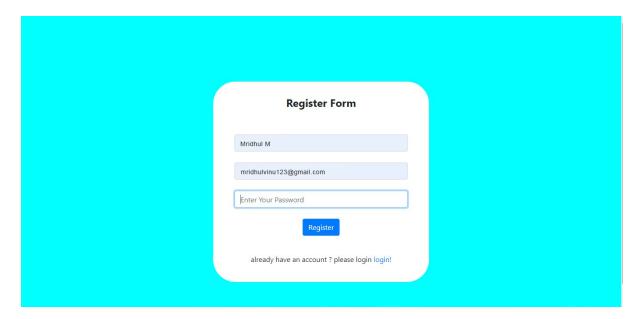
Style.css

```
margin: 0;
    padding: 0;
body {
   background-color: aqua !important;
    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: white;
   width: 40%;
   height: 450px;
   border-radius: 50px;
   margin: 100px;
   gap: 25px;
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;
```

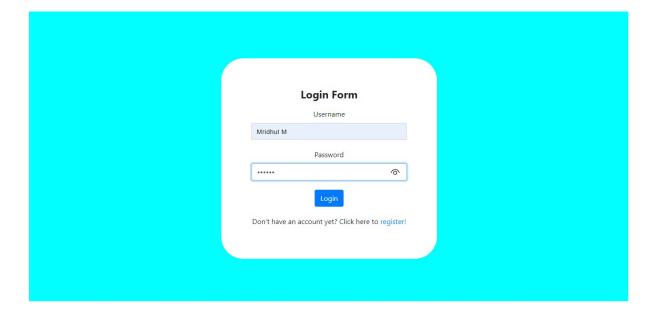
```
}
.form-text-h2 {
   font-size: x-large;
   padding-top: 10px;
}
```

Output:-

registration page:-



Login Page:-



Welcome Page:-



Data Base Table :-

