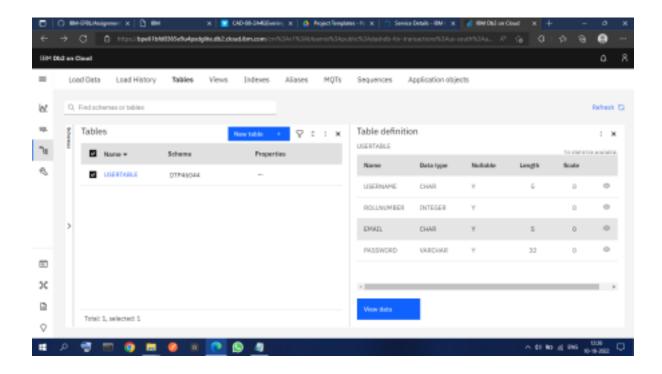
Assignment -2

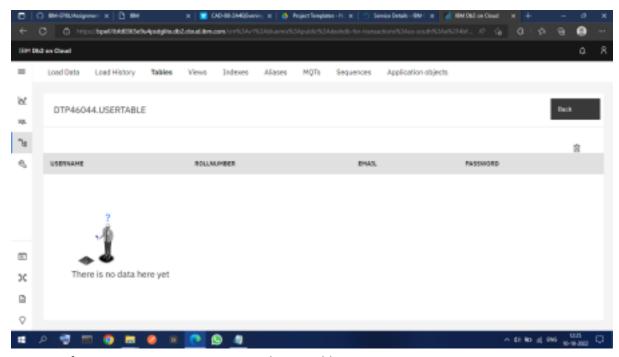
IBM CLOUD DB2

Assignment Date	10 november 2022
Student Name	HEMALATHA S
Student Roll Number	821019104016
Maximum Marks	2 Marks

Questions:

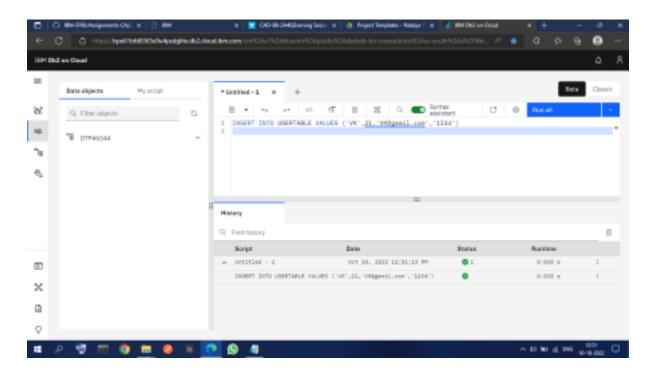
1. Create User table with user with email, username, roll number, password.

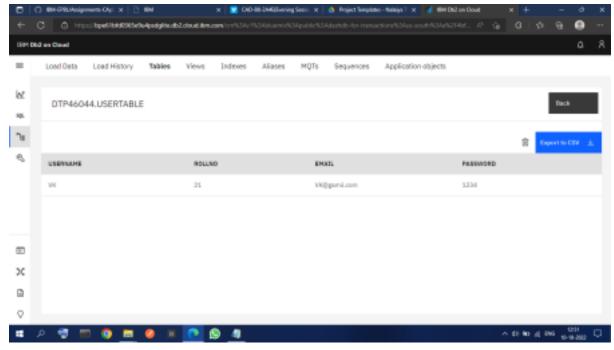




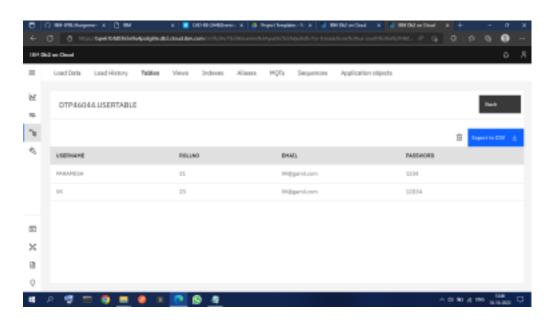
2. Perform UPDATE, DELETE Queries with user table.

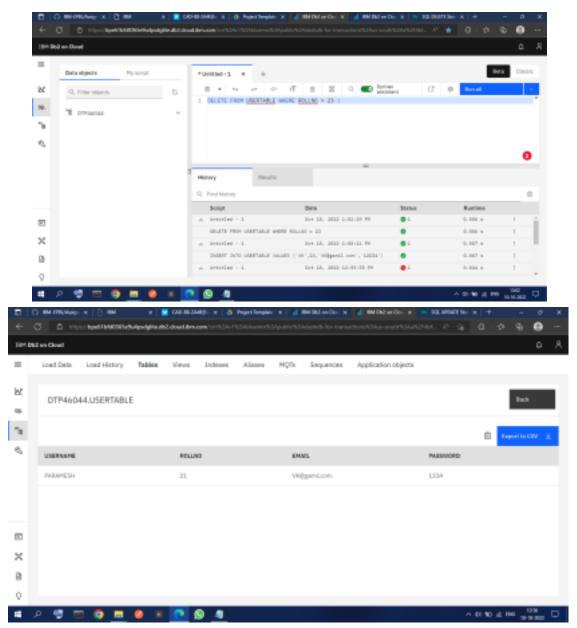
UPDATE TABLE:-





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;USERNA
E=dtp46044;PASSWORD=95soX0sZGhb4ToUj;SECURITY=SSL;SSLSERVERCERTIFICATE=DigiCe
r 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'[^@]+@[^@]+\.[^@]+', 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 = ''
```

```
username = request.form['username']
        password = request.form['password']
        sal = "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['<u>USERNAME</u>']
            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,</pre>
    initial-scale=1.0"> <title>Smart Fashion register</title>
    <!-- bootstrap css cdn -->
    <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.cs
        integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z
" crossorigin="anonymous">
```

if request.method == 'POST':

```
<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">
    link
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>
    <!-- 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>
            <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"</pre>
name="password" 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
href="/login">login! </a> 
            </div>
        </form>
    </div>
</body>
</html>
```

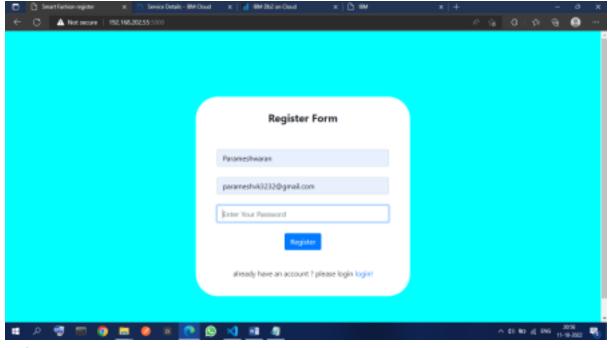
```
Login.html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width,</pre>
    initial-scale=1.0"> <title>Smart Fashion Login</title>
    <!-- favicon -->
    <!-- <link rel="shortcut icon" href="/assets/img/favicon.ico"
type="image/x-icon"> -->
    <!-- <link rel="icon" href="/assets/img/favicon.ico" tvpe="image/x-icon">
-->
    <link rel="icon" type="image/png" sizes="16x16" href="/assets/img/favicon</pre>
32x32.png">
    <!-- bootstrap css cdn -->
    k rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.cs
s "
        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 stvles cdn -->
    <link rel="preconnect" href="https://fonts.gstatic.com">
    link
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"</pre>
placeholder="Username" 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
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;
```

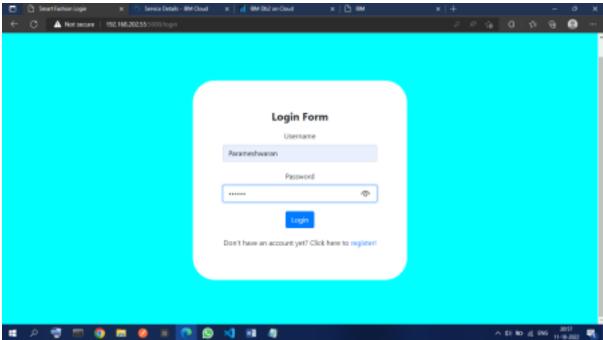
```
margin: 100px;
    gap: 25px;
}
h2 {
   font-size: large;
   font-weight: bolder;
}
input {
    width: 80% !important;
}
div {
    display: flex;
    align-items: center;
    justify-content: center;
   flex-direction: column;
    width: 90%;
}
.form-text-vk {
   font-size: small;
    padding-bottom: 10px;
}
.form-text-h2 {
   font-size: x-large;
    padding-top: 10px;
}
```

Output:-

registration page:-



Login Page:-



Welcome Page:-

