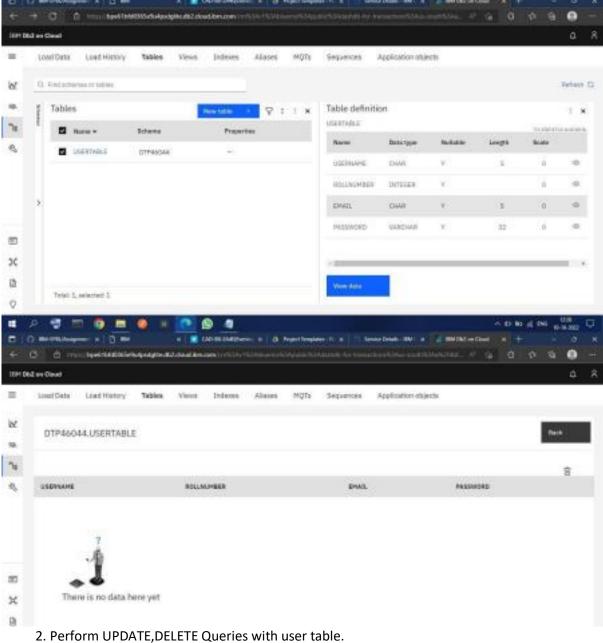
ASSIGNMENT 3

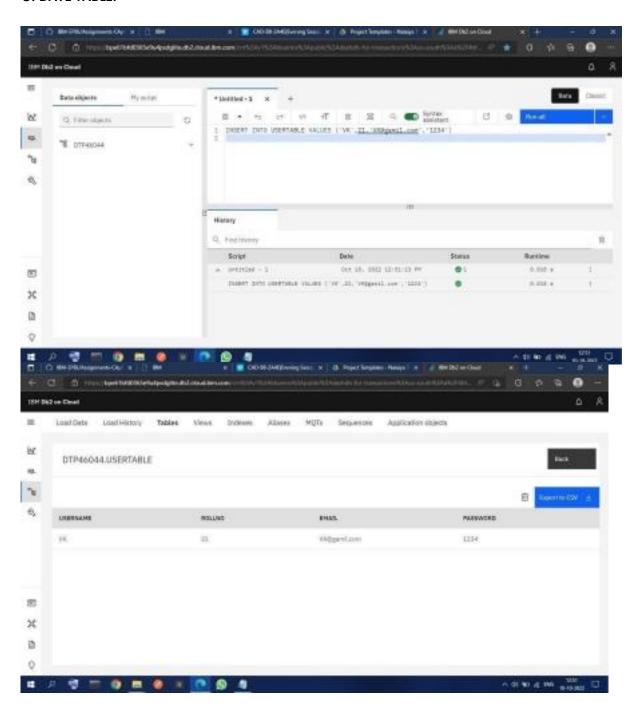
TEAM ID	PNT2022TMID27420
PROJECT NAME	Smart Fashion Recommender Application
NAME	ARAVINDHAN I
ROLL NO	311019205006

Questions:

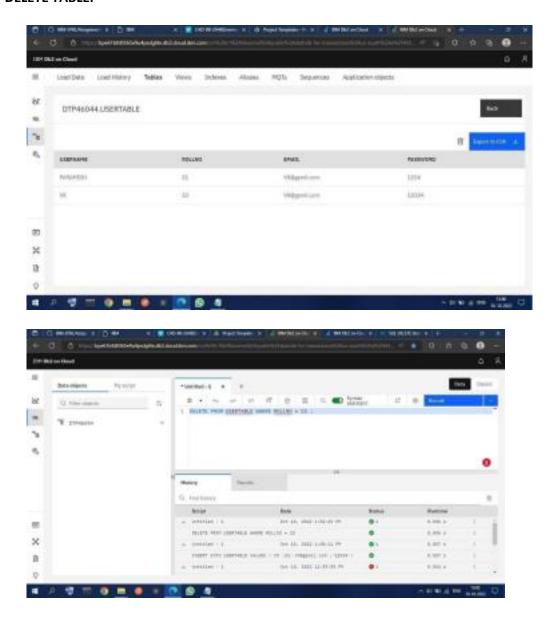
1. Create Usertable with user with email, username, roll number, password.

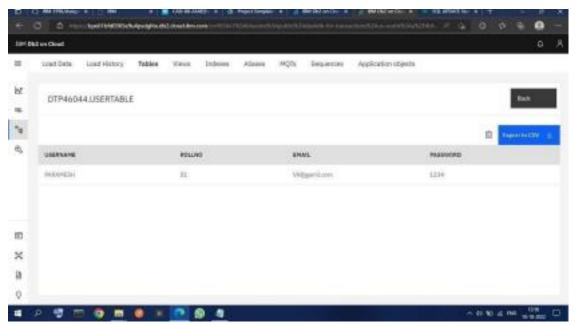


UPDATE TABLE:-



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.clogj3sd0tgtu0lqde00.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'[^@]+@[^@]+\.[^@]+', 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():
   qlobal 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)
 msg = 'Incorrect username / password !'
 return render_template('login.html', msg=msg)
 if_name_== '_main_':
     app.run(host='0.0.0.
     0") #
```

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>
    <l-- bootstrap css cdn -->
    k rel="stylesheet"
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">
<link rei="stylesheet" href="/static/css/style.css">
clink rel="preconnect" href="https://fonts.gstatic.com">
    link
href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
rel="stylesheet">
    clink
href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
</head>
cbody>
    <!-- Login form -->
```

```
<form action="/" method="post">
<h2 class="form-text-h2"> Register Form </h2>
<div class="msg">{{ msg }}</div>
            <input type="text" class="form-control"</pre>
name="username" placeholder="Enter Your Username" id="username"
                 required>
            <input type="email" class="form-control"</pre>
name="email" 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">
(p) already have an account ? please login <a</p>
href="/login">login! </a> 
</div>
</form>
</div>
</body>
```

</html> Login.html

<!DOCTYPE htmL>

32x32.png">

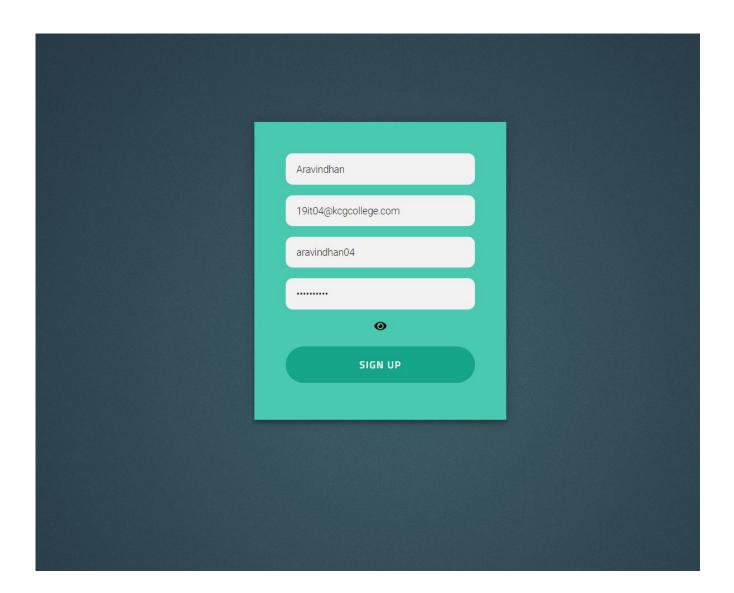
<!-- bootstrap css cdn -->

<link rel="icon" type="image/png" sizes="16x16" href="/assets/img/favicon-</pre>

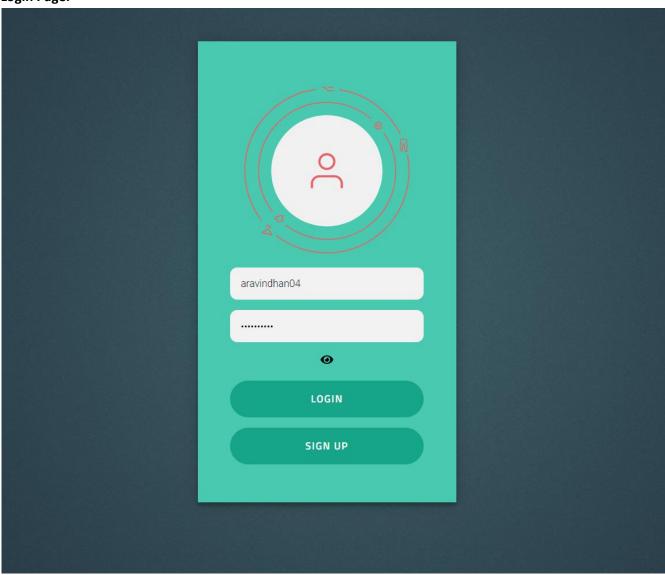
```
<!-- css stylesheet -->
    <link rel="stylesheet" href="/static/css/style2.css">
    <!-- font styles cdn -->
    <link rel="preconnect" href="https://fonts.gstatic.com">
" rel="stylesheet">
   k
href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap
" rel="stylesheet">
</head>
<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"</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"</pre>
</button>
                                         </body>
                                         </html>
                                         class="btn btn-primary"> Login
href="/">register! </a>  </div>
                                         <div class="note mt-3 text-center"> <!--</pre>
</form>
                                         Register form -->
</div>
                                          Don't have an account yet? Click here
                                         to <a
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:
```

Output:registration page:-



Login Page:-



Data Base Table :-

