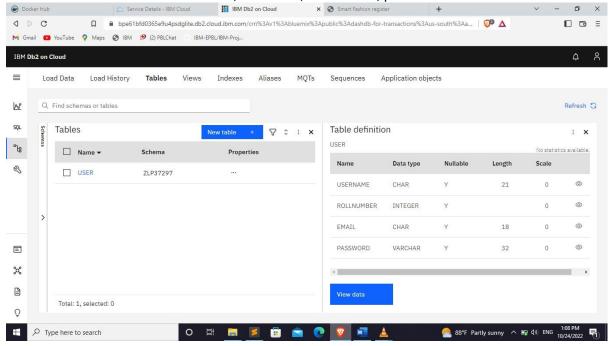
# Assignment -2 IBM CLOUD DB2

Assignment Date	26 OCTOBER 2022
Student Name	S.Mohamed Riyas
Student Roll Number	PNT2022TMID50535
Maximum Marks	2 Marks

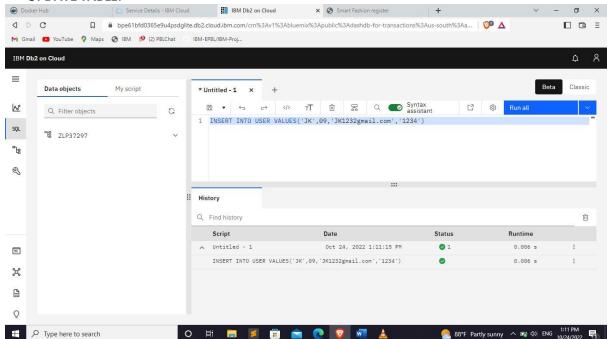
#### **Questions:**

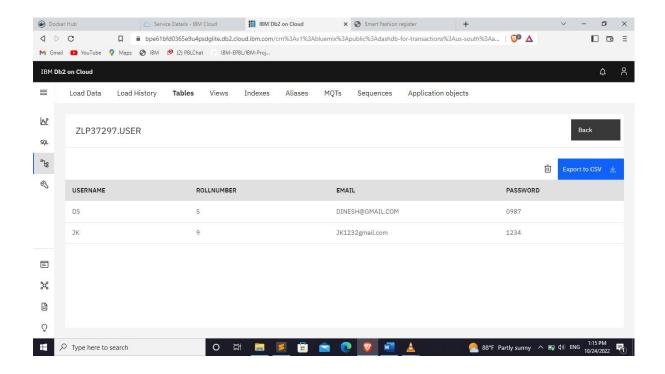
1. Create User table with user with email, username, roll number, password.



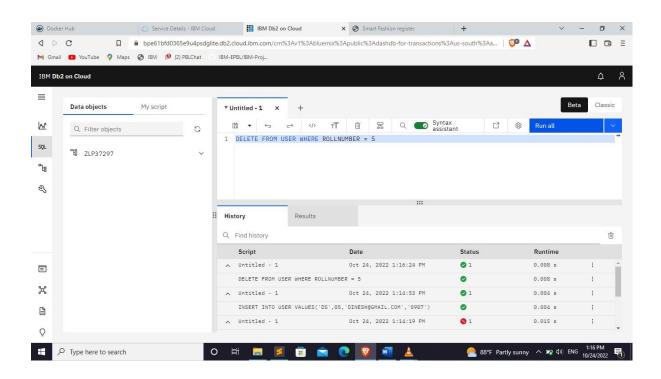
2. Perform UPDATE, DELETE Queries with user table.

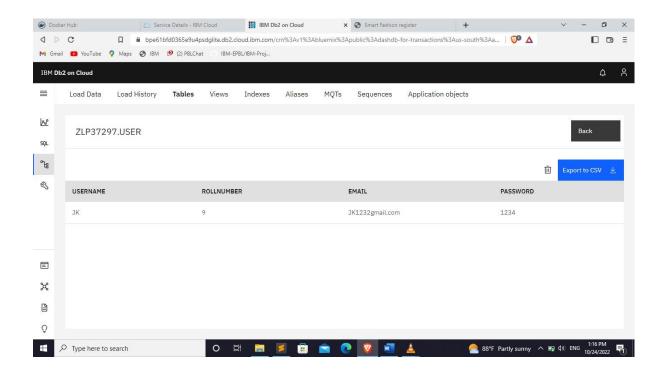






#### **DELETE TABLE:-**





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=9938aec0-8105-433e-8bf9-
Ofbb7e483086.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32459;SECURITY=S
SL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=zlp37297;PWD=so1e9MAlFSDzhxfs","
,")
@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 user 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 user 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 user 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 -->
         k
                                                                                rel="stylesheet"
       href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
           integrity="sha384-
       JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
       crossorigin="anonymous">
         k
                       rel="stylesheet"
                                                href="https://cdnjs.cloudflare.com/ajax/libs/font-
       awesome/4.7.0/css/font-awesome.css">
         <!-- css stylesheet -->
         <link rel="stylesheet" href="\static\style2.css">
         <!-- font styles cdn -->
         k 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>
         <!-- 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" placeholder="Enter Your
       Username" id="username"
               required>
             <input type="email" class="form-control" name="email" placeholder="Enter Your
       Email ID" id="email" required>
             <input type="password" class="form-control" 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, initial-scale=1.0">
```

href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"

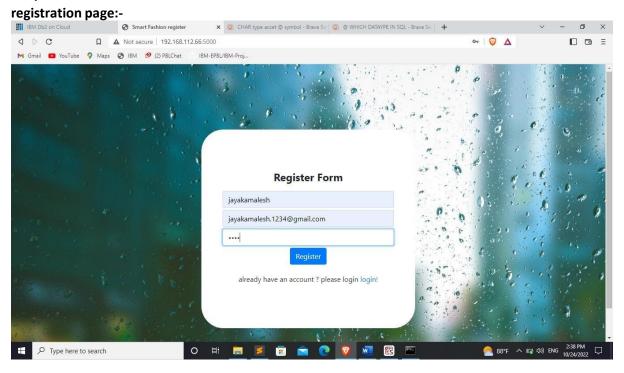
k

```
<title>Smart Fashion Login</title>
 <!-- favicon -->
 <!-- <li>k rel="shortcut icon" href="/assets/img/favicon.ico" type="image/x-icon"> -->
 <!-- <li>k rel="icon" href="/assets/img/favicon.ico" type="image/x-icon"> -->
 <!-- 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">
 k
               rel="stylesheet"
                                      href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.css">
 <!-- css stylesheet -->
 <link rel="stylesheet" href="\static\style2.css">
 <!-- font styles cdn -->
 k 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>
                                    class="form-control"
                   tvpe="text"
                                                             placeholder="Username"
name="username" required>
     </div>
     <div class="form-group mb-3">
        <label class="label" for="password">Password</label>
                  type="password"
                                      class="form-control"
                                                             placeholder="Password"
        <input
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>
```

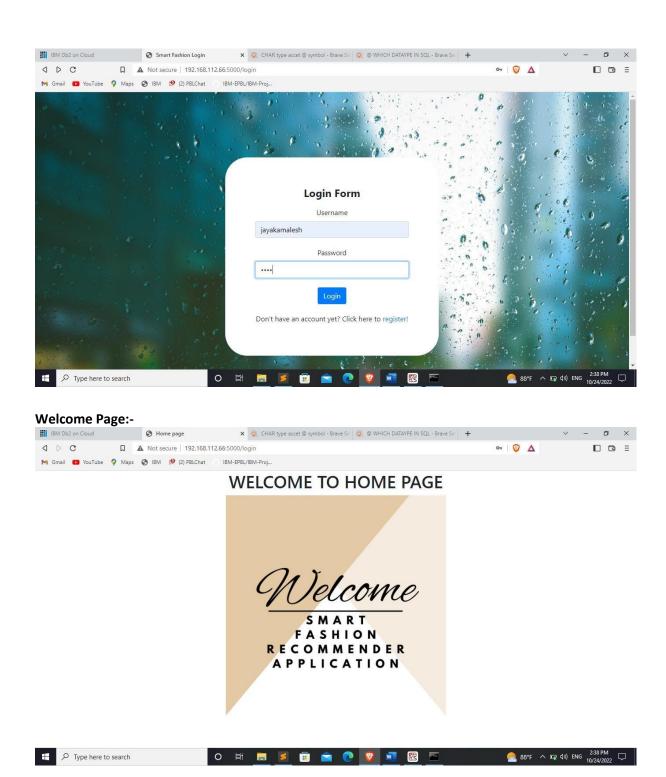
```
</div>
            </form>
          </div>
        </body>
</html>
Style.css
          margin: 0;
          padding: 0;
        }
        body {
          background-image:url(https://ibmjk.s3.us-east.cloud-object-
        storage.appdomain.cloud/pexels-pixabay-531880.jpg);
          background-color: #ccccc;
          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:-



Login Page:-



Data Base Table :-

