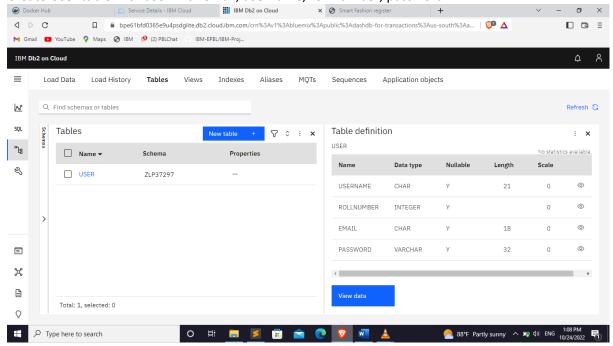
Assignment -2 IBM CLOUD DB2

Assignment Date	29 September 2022
Student Name	Jayakamalesh k
Student Roll Number	511319205009
Maximum Marks	2 Marks

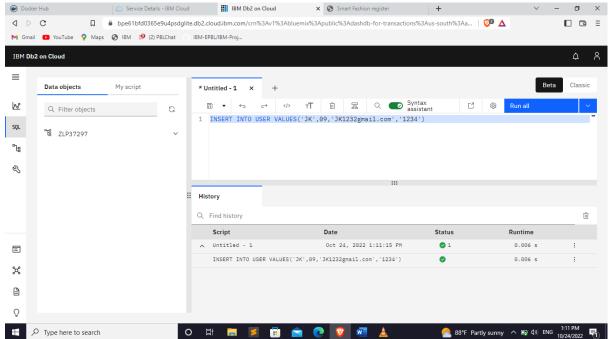
Questions:

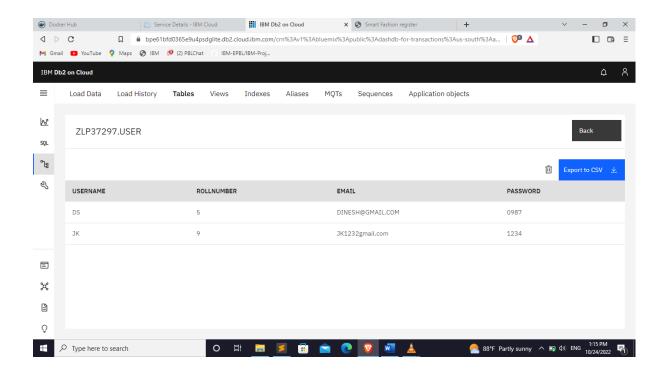
1. Create User table with user with email, username, roll number, password.



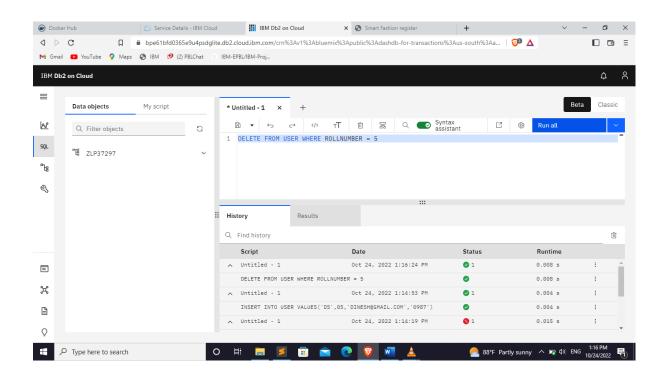
2. Perform UPDATE, DELETE Queries with user table.

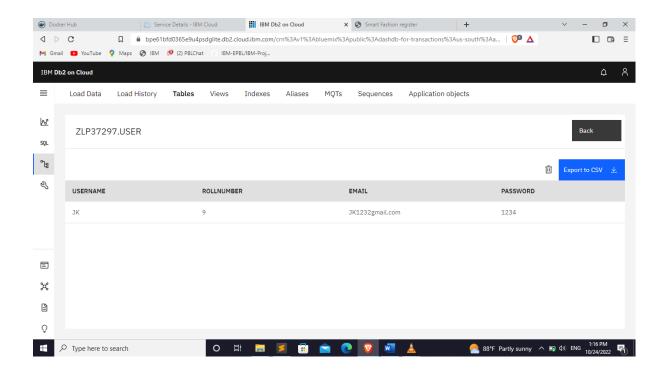






DELETE TABLE:-





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=so1e9MAIFSDzhxfs","
,")
@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!'
      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</pre>
       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"

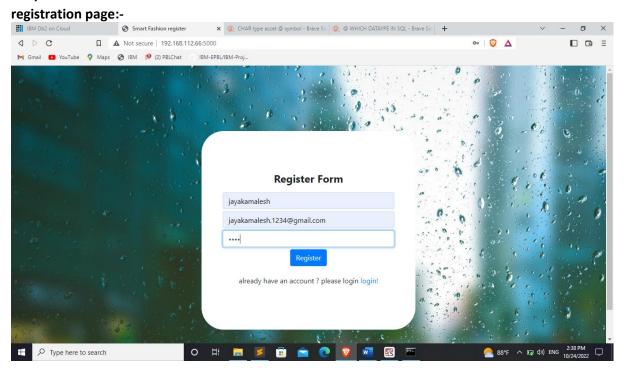
k

```
<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 -->
                                                                     rel="stylesheet"
 k
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"
                                                            placeholder="Username"
        <input
                   tvpe="text"
name="username" required>
     </div>
     <div class="form-group mb-3">
        <label class="label" for="password">Password</label>
        <input
                  type="password"
                                      class="form-control"
                                                             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>
```

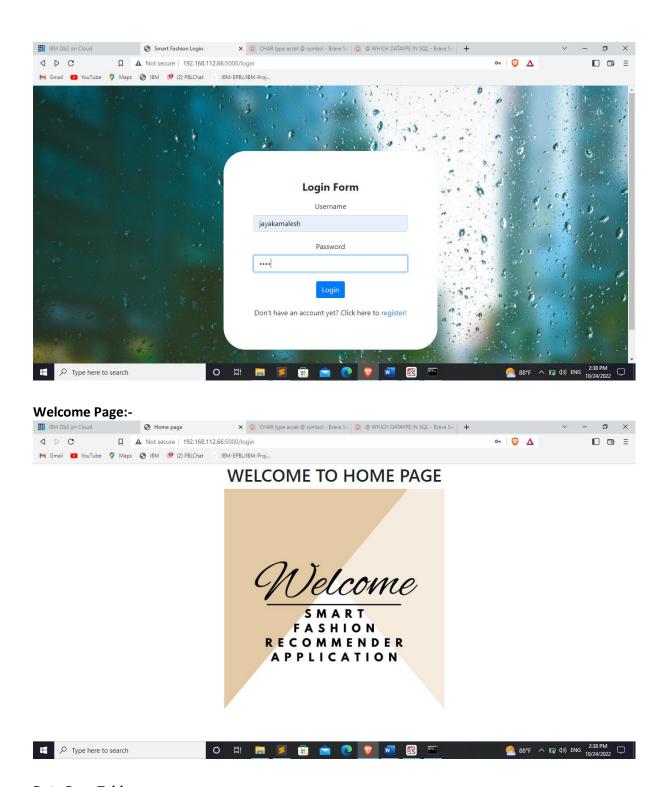
```
</div>
            </form>
          </div>
        </body>
</html>
Style.css
          margin: 0;
          padding: 0;
        }
        body {
          background-image:url(https://ibmjk.s3.us-east.cloud-object-
        storage.appdomain.cloud/pexels-pixabay-531880.jpg);
          background-color: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

