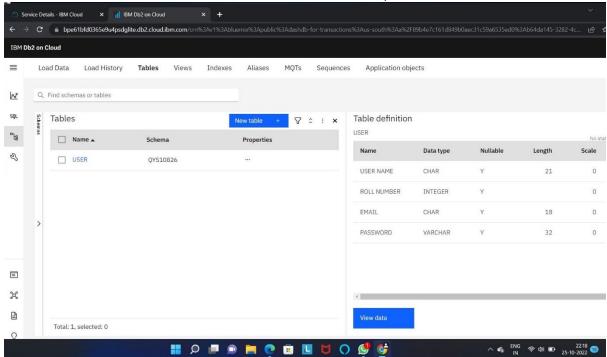
Assignment -2 IBM CLOUD DB2

Assignment Date	29 September 2022
Student Name	Saravanan L
Student Roll Number	511319205025
Maximum Marks	2 Marks

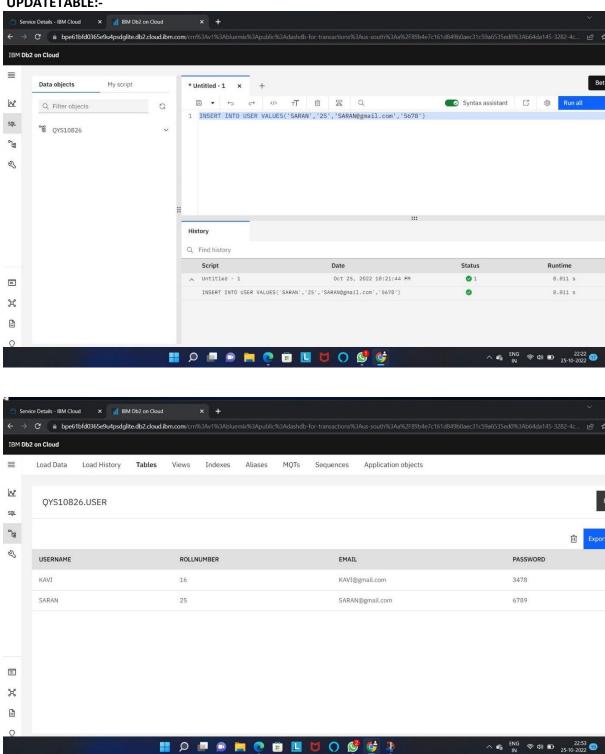
Questions:

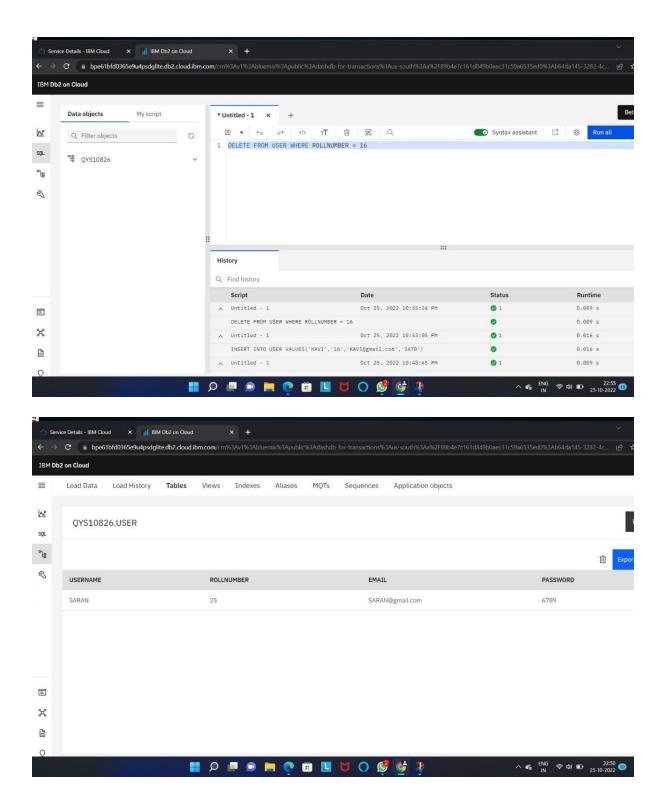
1. Create User table with user with email, username, roll number, password.



2.Perform UPDATE, DELETE Queries with user table

UPDATETABLE:-





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=1bbf73c5-d84a-4bb0-85b9-
ab1a4348f4a4.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=32286;SECURITY=SSL;SSL
ServerCertificate=DigiCertGlobalRootCA.crt;UID=qys10826;PWD=fXqq3tiLqGLZhxn8",",")
@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\style.css">
  <!-- font styles cdn -->
  k 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"</pre>
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 http-equiv="X-UA-Compatible" content="IE=edge">
     <meta name="viewport" content="width=device-width, initial-scale=1.0">
     <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"> -->
     k rel="icon" type="image/png" sizes="16x16" href="/assets/img/favicon-32x32.png">
     <!-- bootstrap css cdn -->
 <link rel="stylesheet"</pre>
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
    integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
  </l></l></
awesome.css">
 <!-- css stylesheet -->
 <link rel="stylesheet" href="\static\style.css">
 <!-- font styles cdn -->
 k rel="preconnect" href="https://fonts.gstatic.com">
 <link 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" name="username"
required>
```

<meta charset="UTF-8">

```
</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://simpleassignment1234.s3.jp-tok.cloud-object-
storage.appdomain.cloud/image%20bucket.jpeg);
  background-color: #ccccc;
  display: flex;
  flex-direction: column;
  align-items: center;
  justify-content: center;
}
form {
```

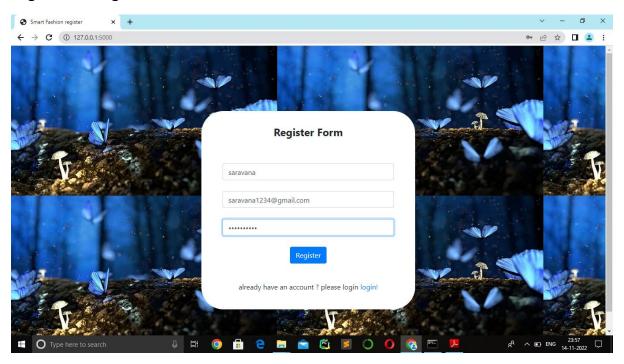
```
display: flex;
  flex-direction: column;
  align-items: center;
  justify-content: center;
  background-color: white;
  width: 40%;
  height: 450px;
  border-radius: 50px;
  margin: 100px;
  gap: 25px;
}
h2 {
  font-size: large;
  font-weight: bolder;
}
input {
  width: 80% !important;
}
div {
  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;
```

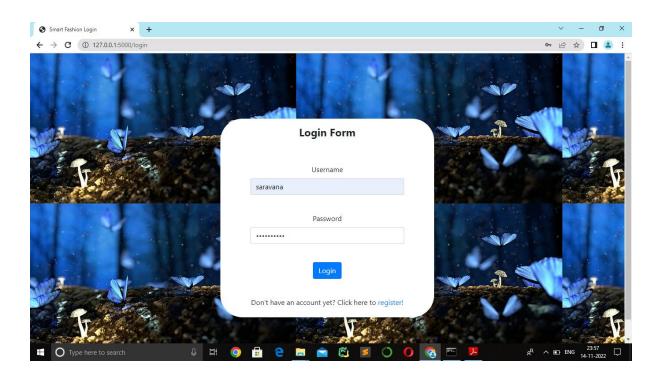
Output:

}

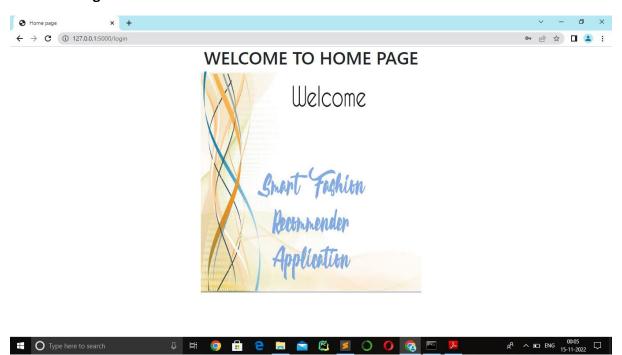
Registration Page:



Login Page:



Welcome Page:



Data Base Table:

