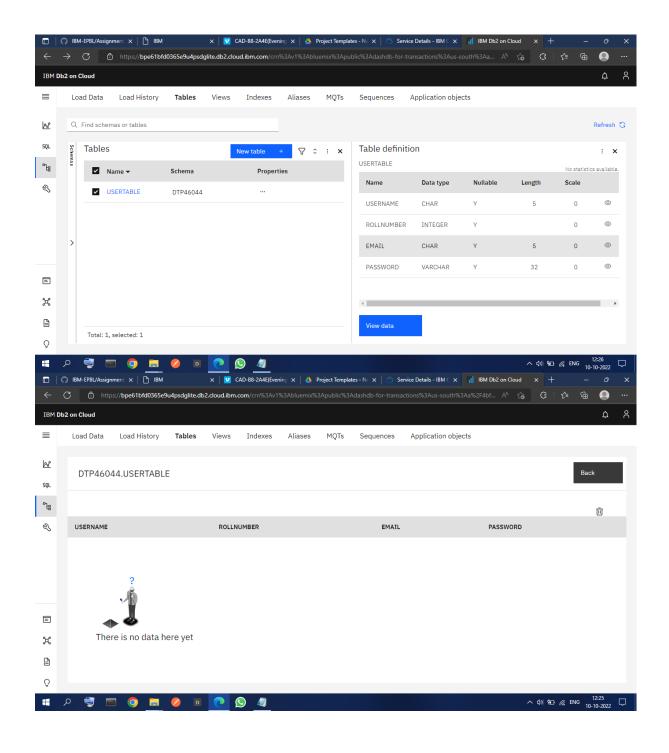
Assignment -2 IBM CLOUD DB2

Assignment Date	23 November 2022
Student Name	SARUTHY P
Student Roll Number	813019104030
Maximum Marks	2 Marks

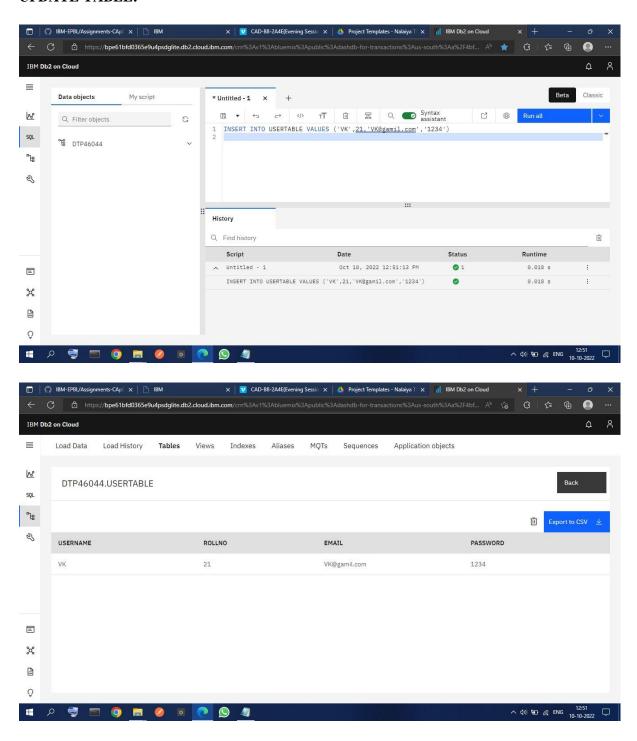
Questions:

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

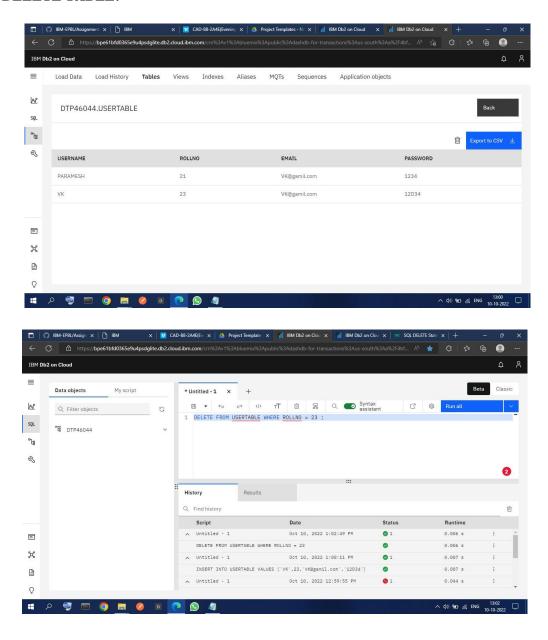


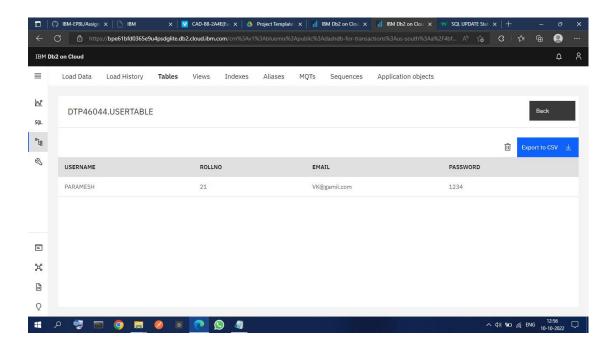
2. Perform UPDATE, DELETE Queries with user table.

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

Answer

sApp.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'[^{\circ}@]+^{\circ}@]+^{\circ}, 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 useridmsg
    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)
    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 -->
            <link rel="stylesheet"</pre>
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">href="https://stackpath.bootstrapcdn.com/bootstrap.min.css">href="https://stackpath.bootstrap.min.css">href="https://stackpath.bootstrap.min.css">href="https://stackpath.bootstrap.min.css">href="https://stackpath.bootstrap.min.css">href="https://stackpath.bootstrap.min.css">href="https://stackpath.bootstrap.min.css">href="https://stackpath.bootstrap.min.css">href="https://stackpath.bootstrap.min.css">href="https://stackpath.bootstrap.min.css">href="https://stackpath.bootstrap.min.css">href="https://stackpath.bootstrap.min.css">href="https://stackpath.bootstrap.min.css">href="https://stackpath.bootstrap.min.css">href="https://stackpath.bootstrap.min.css">href="https://stackpath.bootstrap.min.css">href="https://stackpath.bootstrap.min.css">href="https://stackpath.bootstrap.min.css">href="https://stackpath.bootstrap.min.css">href="https://stackpath.bootstrap.min.css">href="https://stackpath.bootstrap.min.css">href="https://stackpath.bootstrap.min.css">href="https://stackpath.bootstrap.min.css">href="https://stackpath.bootstrap.min.css">href="https://stackpath.bootstrap.min.css">href="https://stackpath.bootstrap.min.css">href="https://stackpath.bootstrap.min.css">href="https://stackpath.bootstrap.min.css">href="https://stackpath.bootstrap.min.css">href="https://stackpath.bootstrap.min.css">href="https://stackpath.bootstrap.min.css">href="https://stackpath.bootstrap.min.css">href="https://stackpath.bootstrap.min.css">href="https://stackpath.bootstrap.min.css">href="https://stackpath.bootstrap.min.css">href="https://stackpath.bootstrap.min.css">href="https://stackpath.bootstrap.min.css">href="https://stackpath.bootstrap
                        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/style.css">
            <!-- font styles cdn -->
            <link rel="preconnect" href="https://fonts.gstatic.com">
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>
            <!-- 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" name="password"</pre>
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</p>
href="/login">login! </a> 
            </div>
        </form>
    </div>
</body>
</html>
```

Login.html

```
integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z
"crossorigin="anonymous">
     <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-</pre>
awesome.css">
     k rel="stylesheet" href="/static/css/style2.css">
     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>
                    <input type="text" class="form-control" placeholder="Username"name="username"</pre>
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>
```

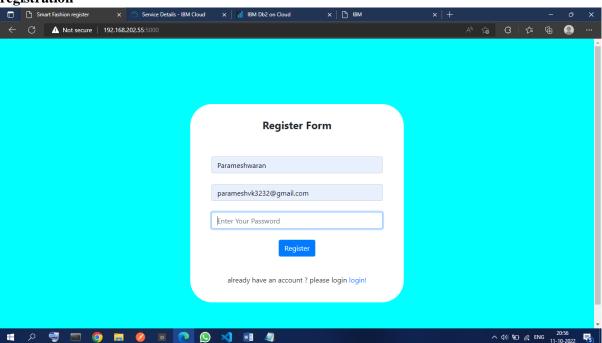
Style.css

```
margin: 0;
     padding: 0;
body {
     background-color: aqua !important;display:
     flex-direction: column; align-
     items: center; justify-content:
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



Login Page:
□ Smirt Fadrion Login X Service Details - BM Cloud X II BM Db2 on Cloud X II BM X + - ○ X

□ Smirt Fadrion Login X II BM Db2 on Cloud X II BM Db2 on Cloud X II BM Db2 on Cloud X II BM X + - ○ X

□ Smirt Fadrion Login X II BM Db2 on Cloud X II BM Db2 on Cloud X II BM X + - ○ X

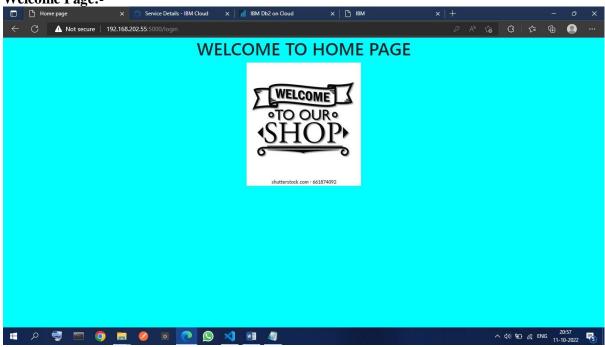
□ Smirt Fadrion Login X II BM Db2 on Cloud X II BM X + - ○ X

□ Smirt Fadrion Login X II BM Db2 on Cloud X II BM Db2 on Cloud X II BM Db2 on Cloud X II BM X + - ○ X

□ Smirt Fadrion Login X II BM Db2 on Cloud X II BM Db2

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Welcome Page:-



Data Base Table :-

