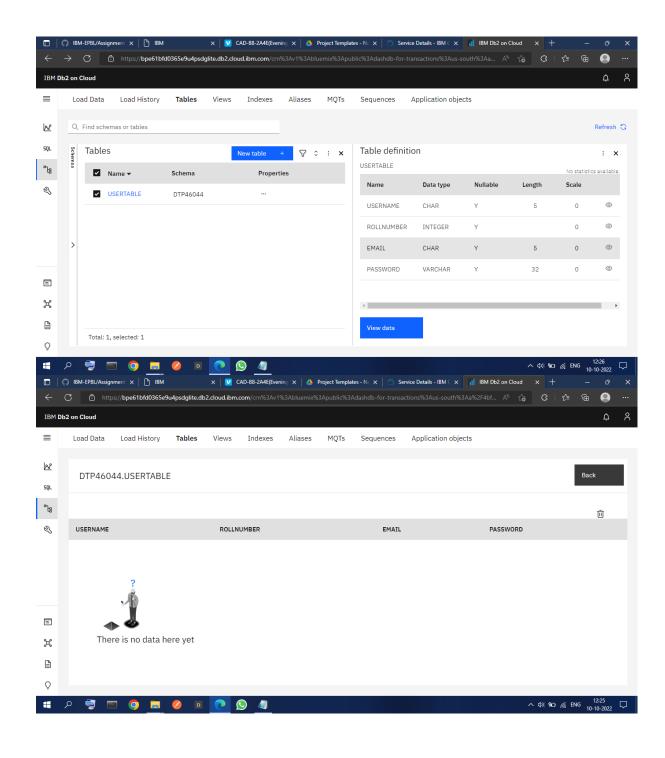
# Assignment -2 IBM CLOUD DB2

Assignment Date	25 November2022
Team id	PNT2022TMID25197
Maximum Marks	2 Marks

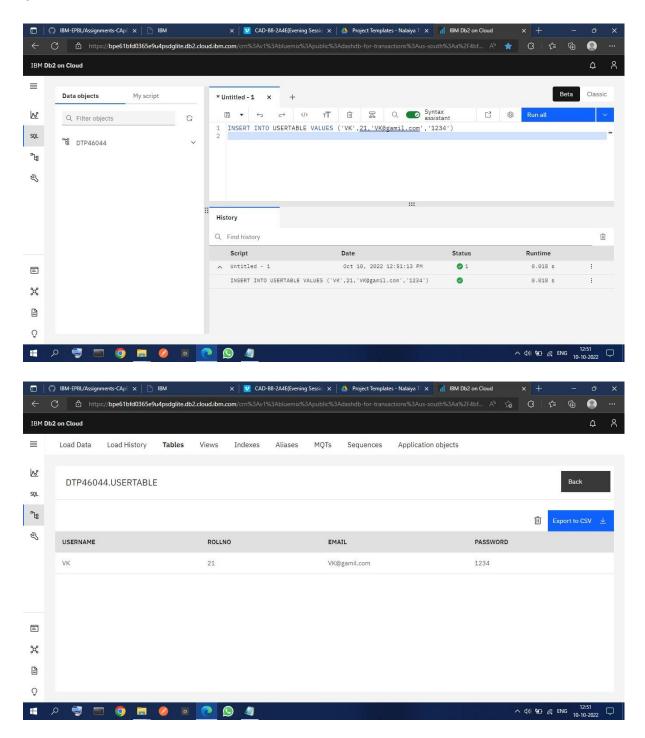
## **Questions:**

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

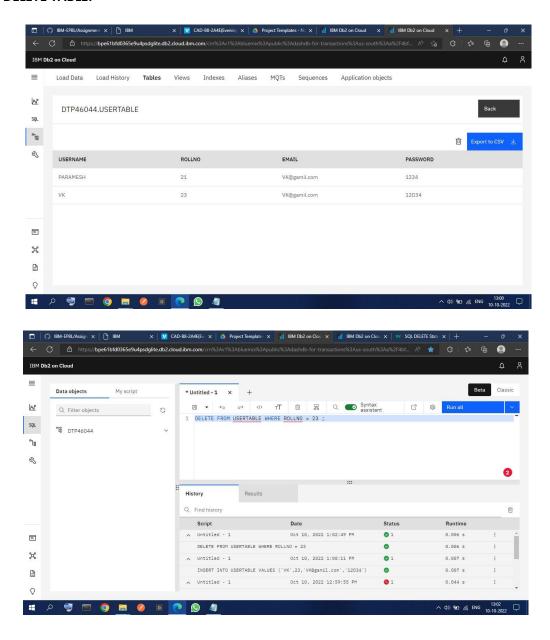


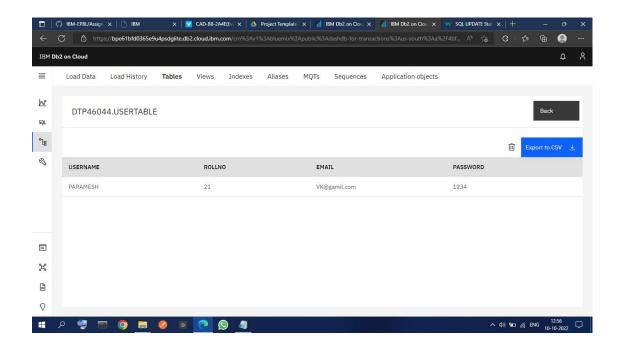
2. Perform UPDATE, DELETE Queries with user table.

### **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

#### **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'[^0]+0[^0]+1,[^0]+1, 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 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)
        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 <pre>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">
           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>
           <!-- 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"</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

```
<!DOCTYPE html>
<html <pre>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 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">
    <link rel="icon" type="image/png" sizes="16x16" href="/assets/img/favicon-</pre>
32x32.png">
    <!-- bootstrap css cdn -->
    <link rel="stylesheet"</pre>
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css
```

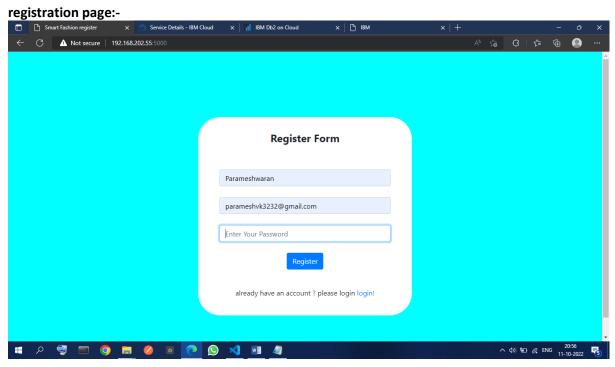
```
integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-</pre>
awesome/4.7.0/css/font-awesome.css">
    <!-- css stylesheet -->
    <link rel="stylesheet" href="/static/css/style2.css">
    <!-- font styles cdn -->
    <link 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"</pre>
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" 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</p>
href="/">register! </a> 
            </div>
        </form>
    </div>
</body>
</html>
```

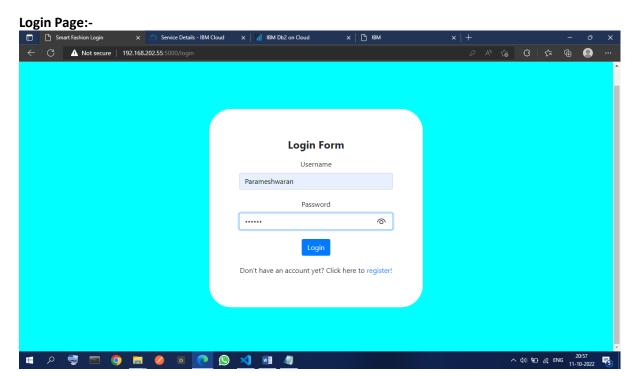
Style.css

```
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;
```

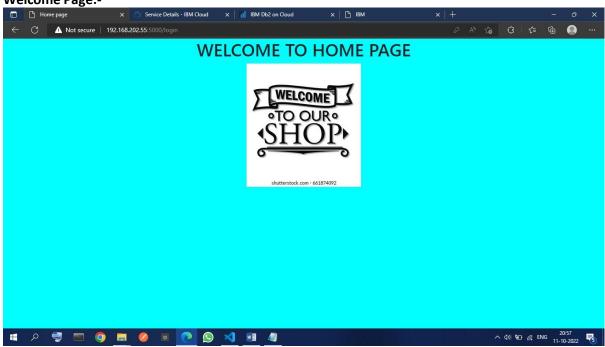
```
}
.form-text-h2 {
    font-size: x-large;
    padding-top: 10px;
}
```

# **Output:-**





# Welcome Page:-



## Data Base Table :-

