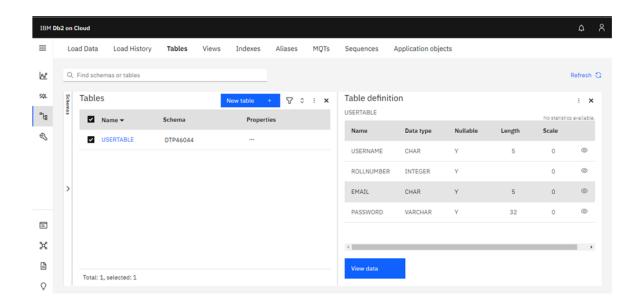
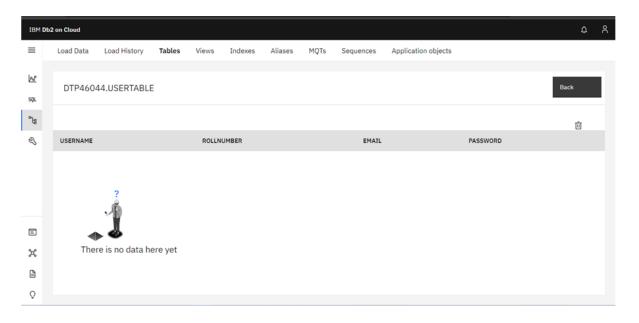
Assignment -2 IBM CLOUD DB2

Assignment Date	29 September 2022
Student Name	K.Peratchi Selvi
Student Roll Number	952819104039
Maximum Marks	2 Marks

Questions:

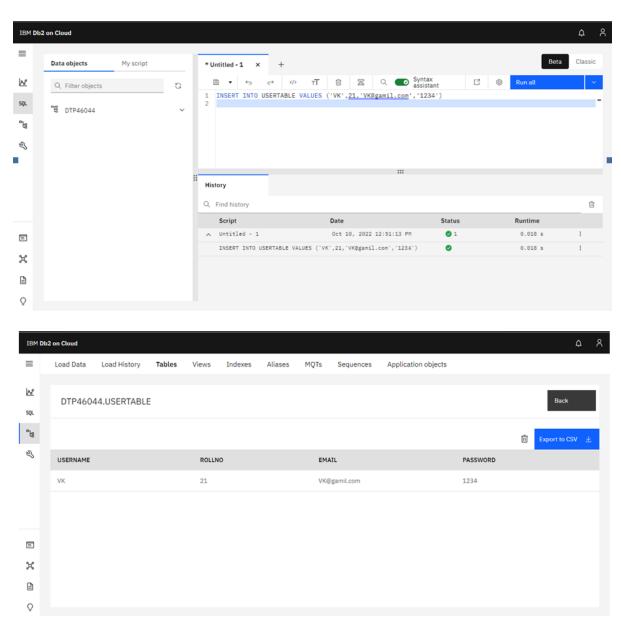
1. Create User table with user with email, username, roll number, password.



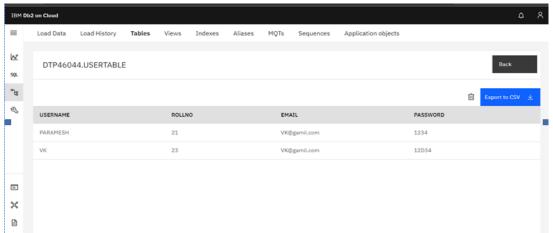


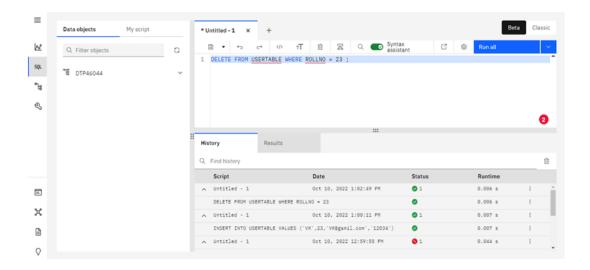
2. Perform UPDATE, DELETE Queries with user table.

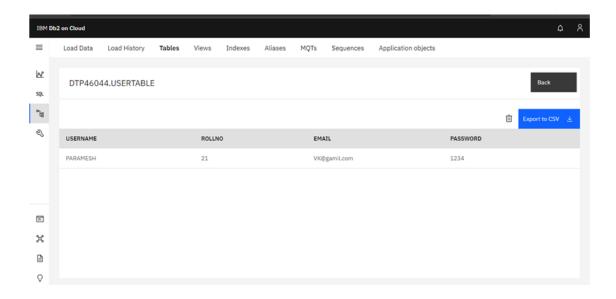
UPDATE TABLE:-



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=''
    ifrequest.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 !'
        elifnotre.match(r'[^@]+@[^@]+\.[^@]+', email):
            msg='Invalid email address !'
        elifnotre.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'])
deflogin():
    qlobaluserid
    msg=''
    ifrequest.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 !'
    returnrender_template('dashboard.html',msg=msg)
    else:
        msg='Incorrect username / password !'
    returnrender_template('login.html',msg=msg)

if __name__ =='__main__':
    app.run(host='0.0.0.0')
#app.run(debug=True)
```

register.html

```
<!DOCTYPEhtml>
<html <pre>lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible"content="IE=edge">
    <metaname="viewport"content="width=device-width, initial-scale=1.0">
    <title>Smart Fashion register</title>
    <!-- bootstrap csscdn-->
    k
rel="stylesheet"href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/b
ootstrap.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/style.css">
    <!-- font styles cdn-->
    <link rel="preconnect" href="https://fonts.gstatic.com">
href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"rel="styl"
esheet">
    k
href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
</head>
```

```
<body>
    <!-- bootstrap navbar-->
    <!-- Login form -->
    <div class="login text-center mt-5">
        <form action="/"method="post">
            <h2 class="form-text-h2"> Register Form </h2>
            <div class="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-</pre>
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</p>
href="/login">login! </a>
            </div>
        </form>
    </div>
</body>
</html>
```

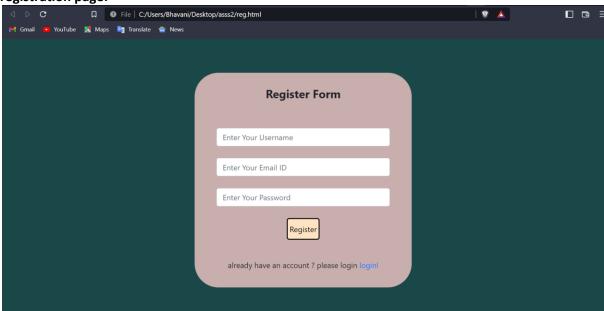
login.html

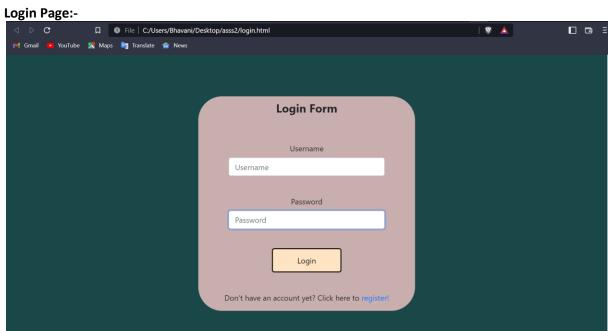
```
<linkrel="stylesheet"href="https://cdnjs.cloudflare.com/ajax/libs/font-</pre>
awesome/4.7.0/css/font-awesome.css">
    <!--css stylesheet -->
    <linkrel="stylesheet"href="/static/css/style2.css">
    <!-- font styles cdn-->
    <linkrel="preconnect"href="https://fonts.gstatic.com">
href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"rel="styl"
esheet">
    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"></div>
            <div class="form-group mb-3">
                <label class="label" for="username">Username</label>
                <input type="text" class="form-</pre>
control"placeholder="Username"name="username"required>
            </div>
            <div class="form-group mb-3">
                <label class="label" for="password">Password</label>
                <input type="password"class="form-</pre>
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</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;
```

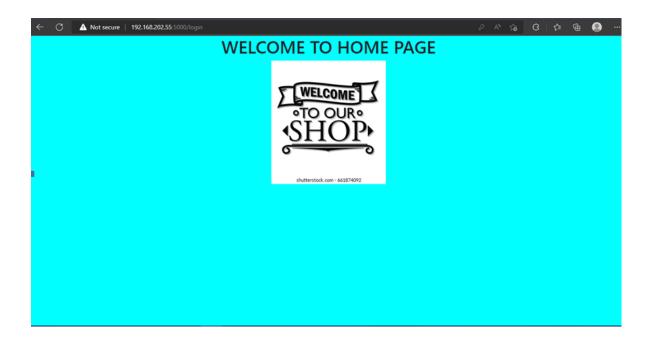
Output:-

registration page:-





Welcome Page:-



Data Base Table :-

