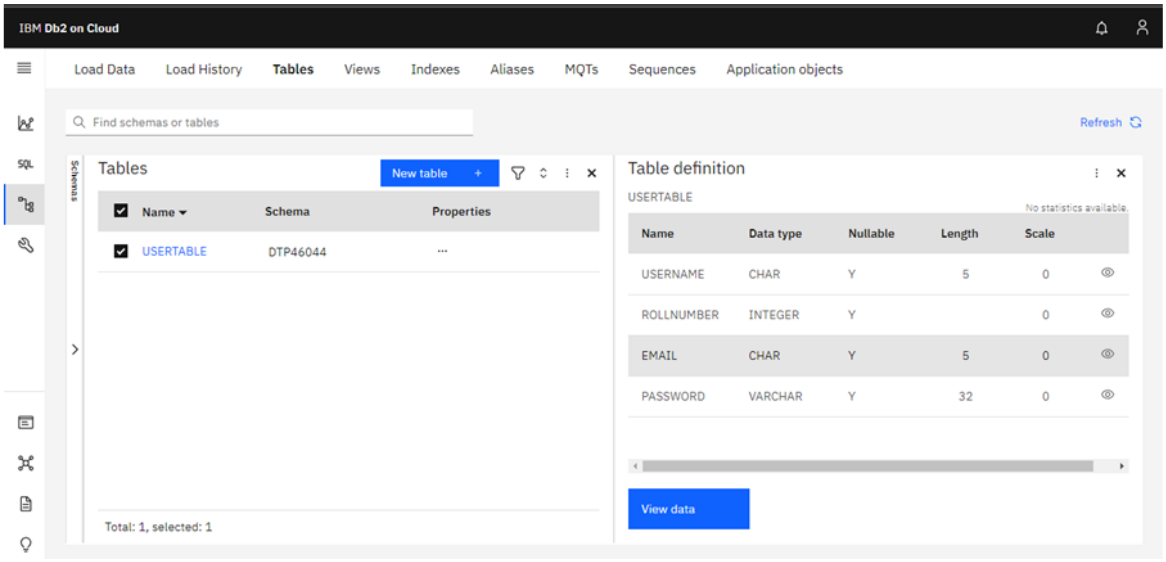
Assignment -2

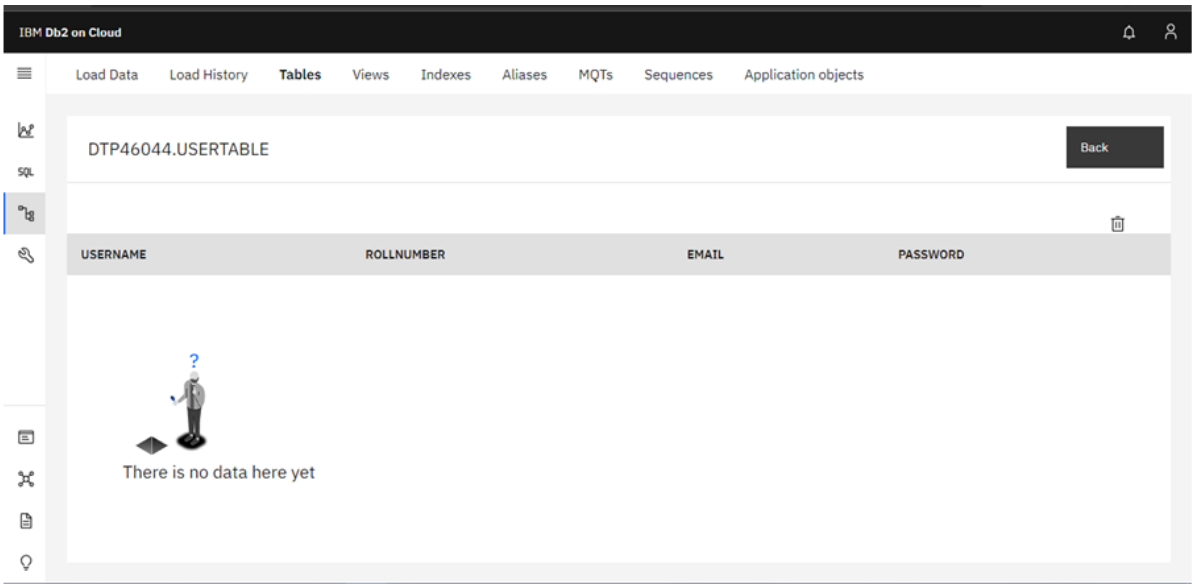
IBM CLOUD DB2

Assignment Date	29 September 2022
Student Name	A.Anitha
Student Roll Number	952819104008
Maximum Marks	2 Marks

Questions:

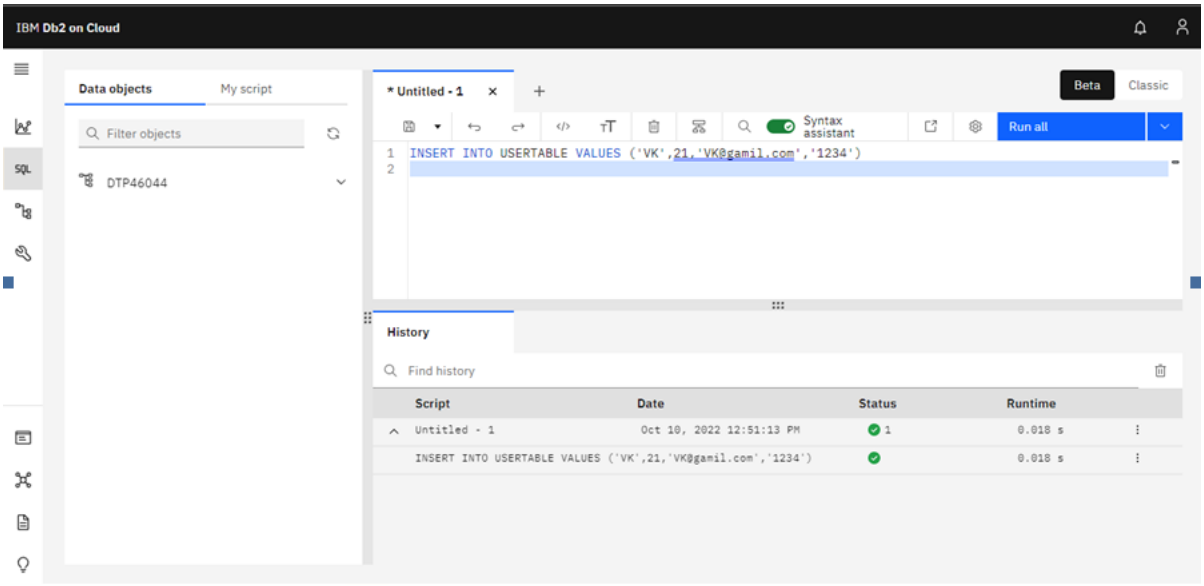
1. Create User table with user with email, username, roll number, password.

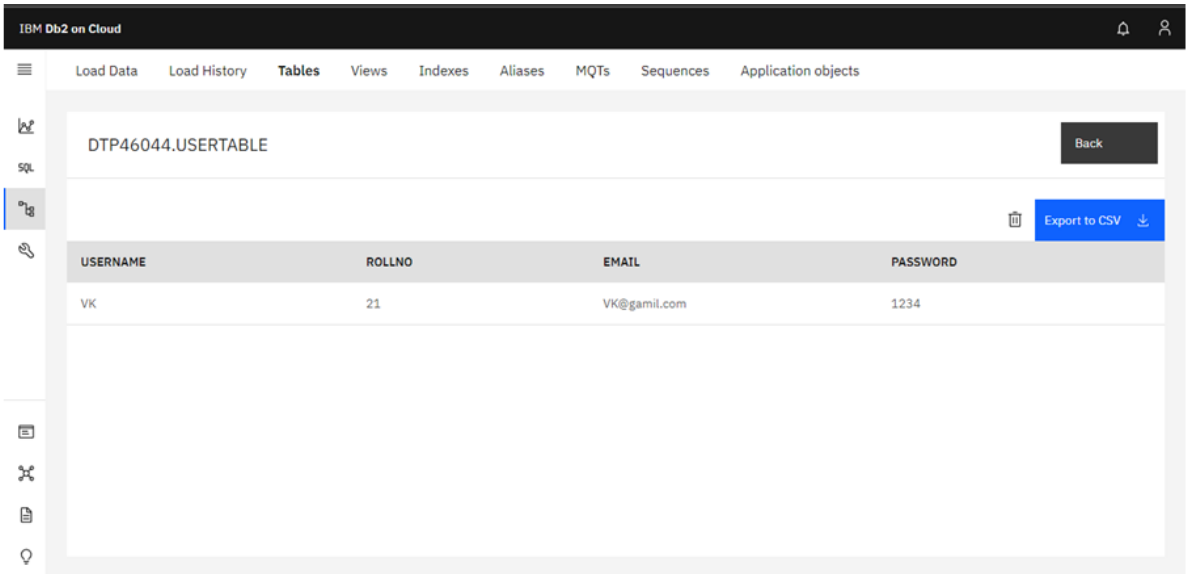




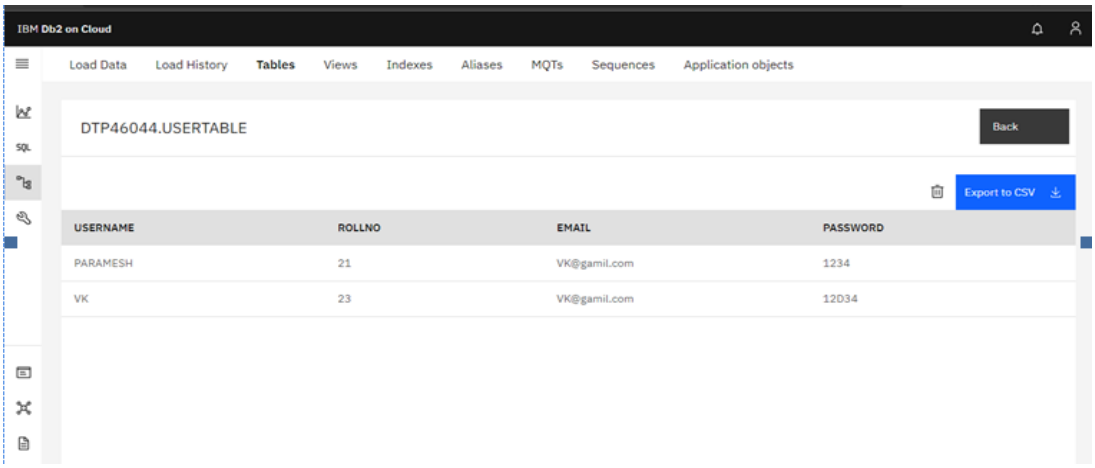
2. Perform UPDATE, DELETE Queries with user table.

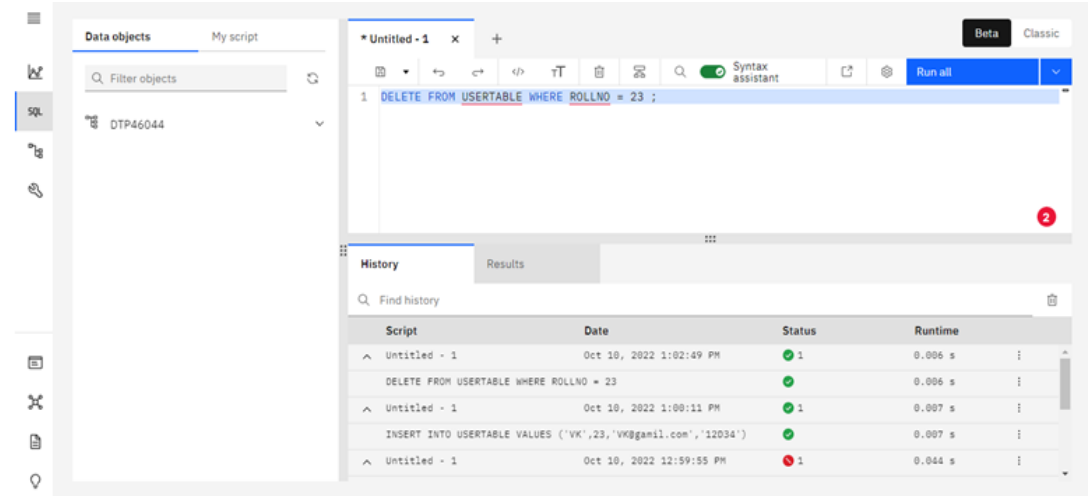
UPDATE TABLE:-

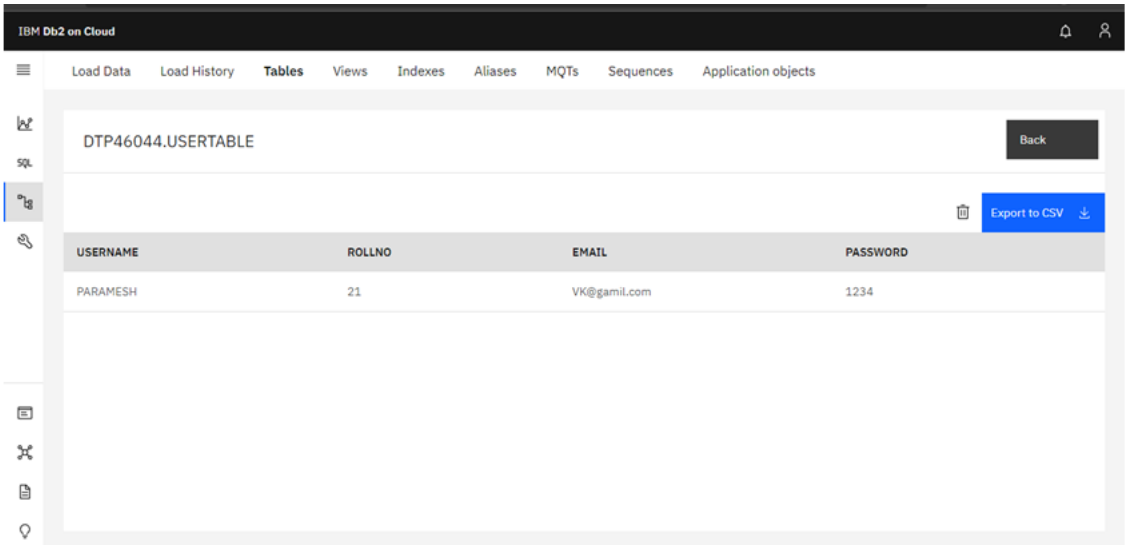




DELETE TABLE:-







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.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32731;USERNAM
E=dtp46044;PASSWORD=95soX0sZGhb4ToUj;SECURITY=SSL;SSLSERVERCERTIFICATE=DigiCer
tGlobalRootCA.crt;","","")
```

```python
@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():
    globaluserid
    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 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-->
    <link
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-
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">
    <link
href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"rel="styl
esheet">
    <link
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"> </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 -->
                <p> already have an account ? please login <a
href="/login">login! </a></p>

            </div>
        </form>

    </div>


</body>

</html>
```

login.html

```
<!DOCTYPEhtml>
<htmllang="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>
    <link rel="icon"type="image/png"sizes="16x16"href="/assets/img/favicon-
32x32.png">  <link
rel="stylesheet"href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/b
ootstrap.min.css"
        integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"crossorigin="
anonymous">
```

```
    <linkrel="stylesheet"href="https://cdnjs.cloudflare.com/ajax/libs/font-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">
    <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" 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-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-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 -->
                <p> Don't have an account yet? Click here to <a href="/">register! </a></p>
            </div>
        </form>
    </div>


</body>

</html>
```

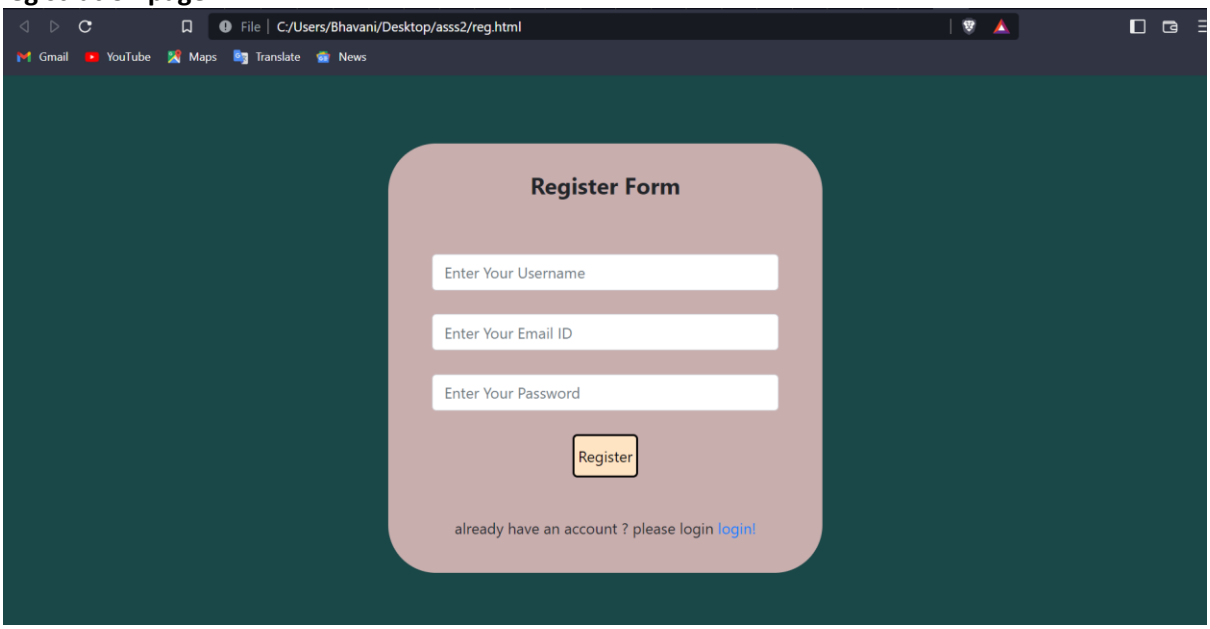
style.css

```
* {
    margin: 0;
    padding: 0;
}
```

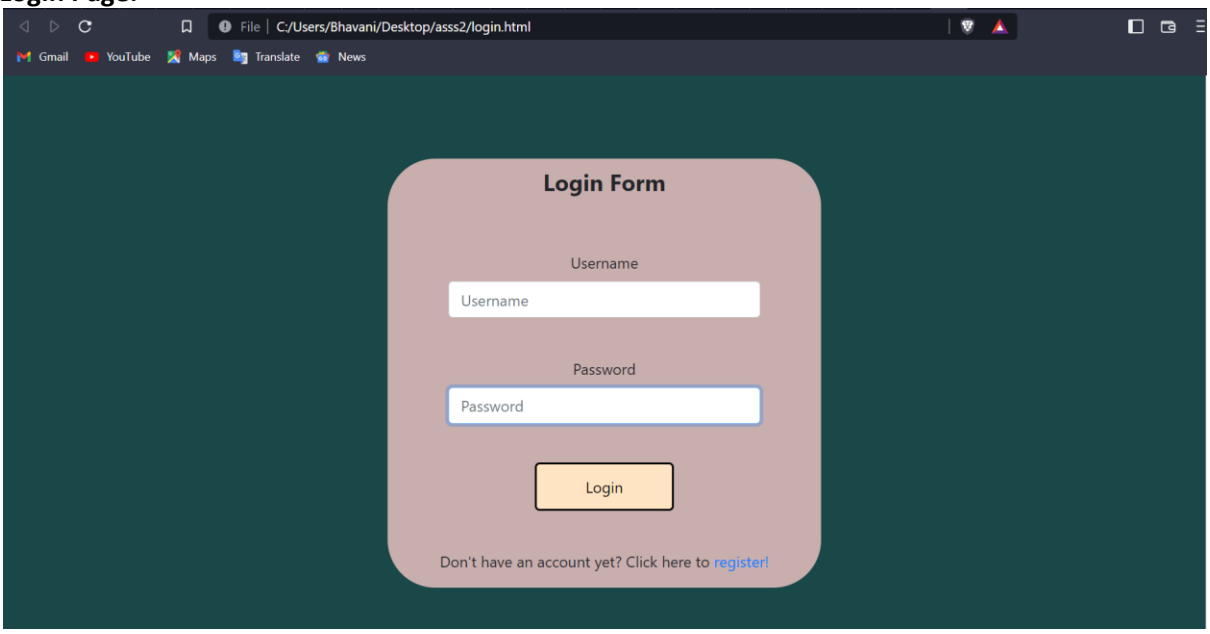
```css
body {
    background-color: aqua !important;
    display: flex;
    flex-direction: column;
    align-items: center;
    justify-content: center;
}

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:-

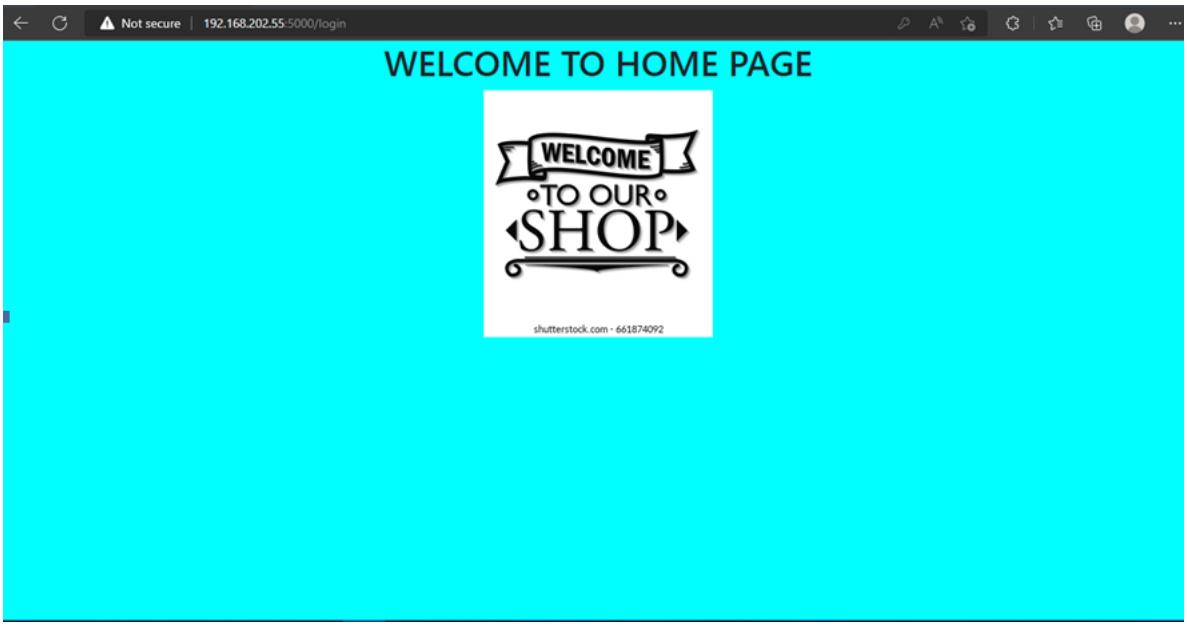
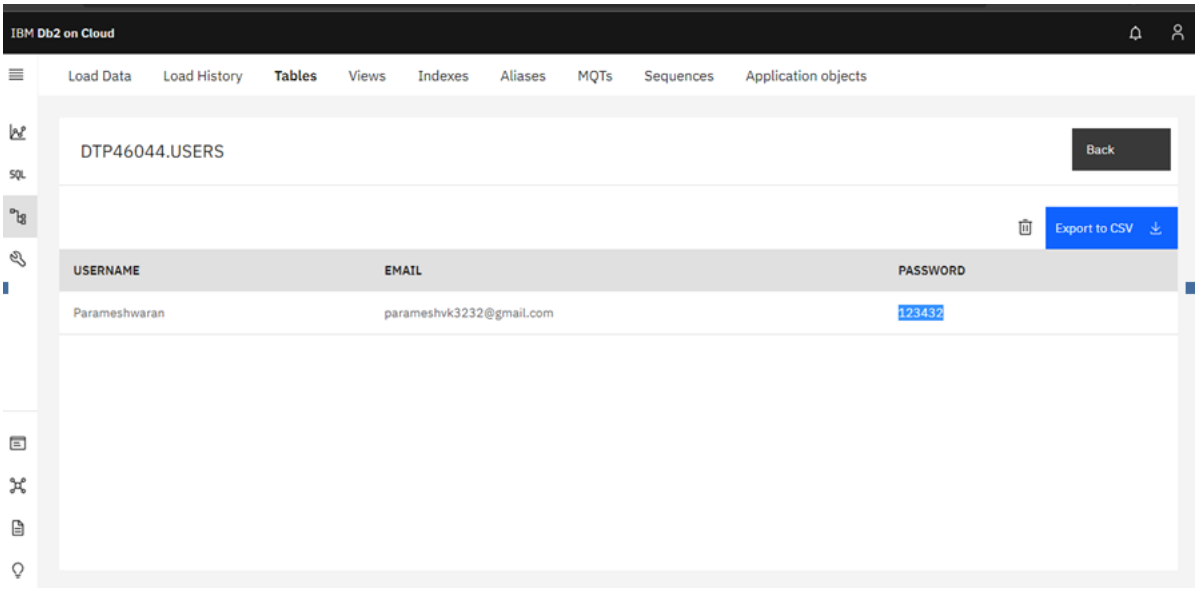
registration page:-



Login Page:-



Welcome Page:-



Data Base Table :-