

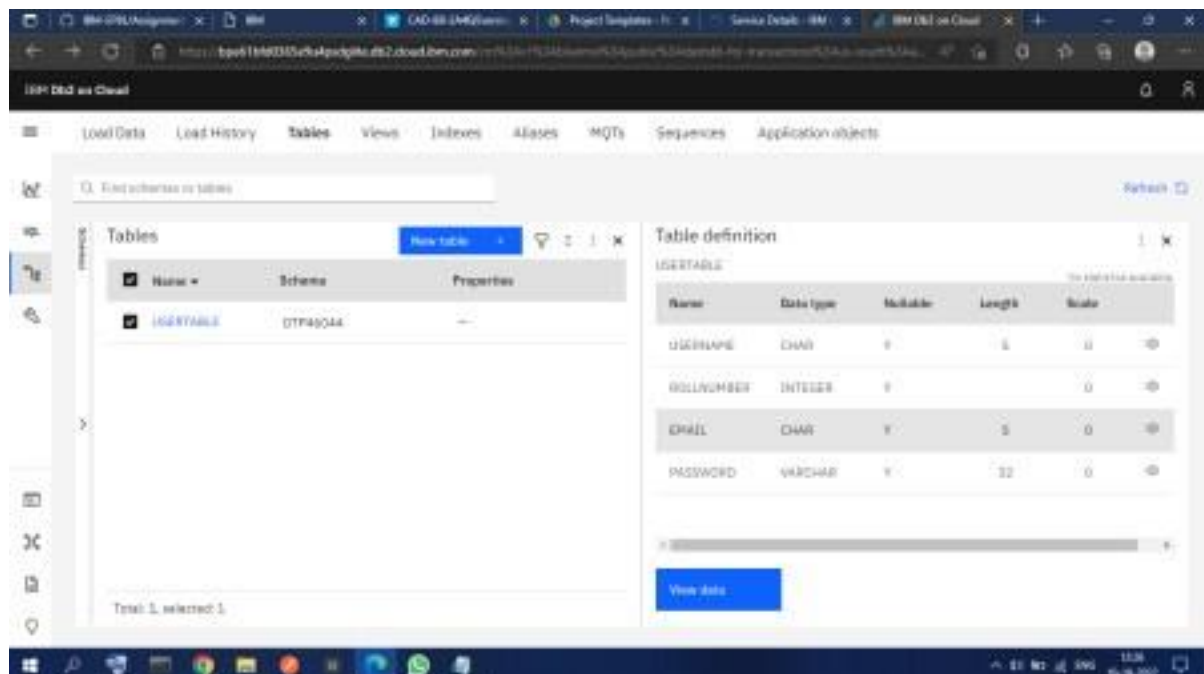
Assignment -2

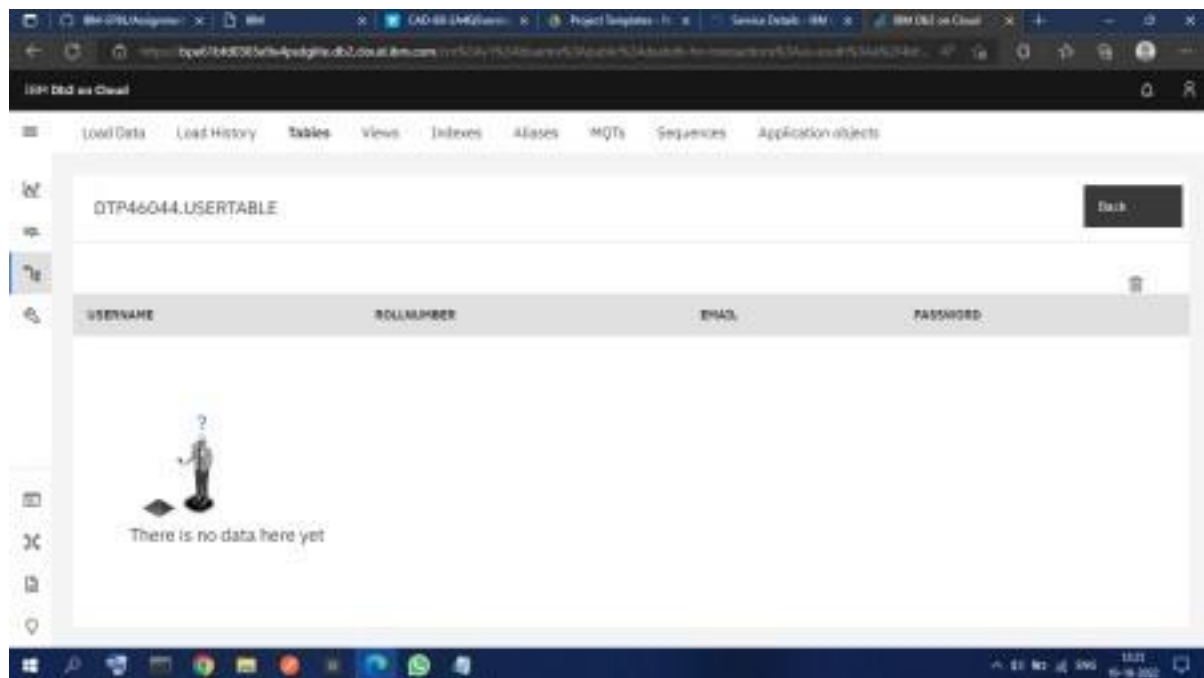
IBM CLOUD DB2

Student Name	Dhansree R
Student Roll Number	710719205014
Maximum Marks	2 Marks

Questions:

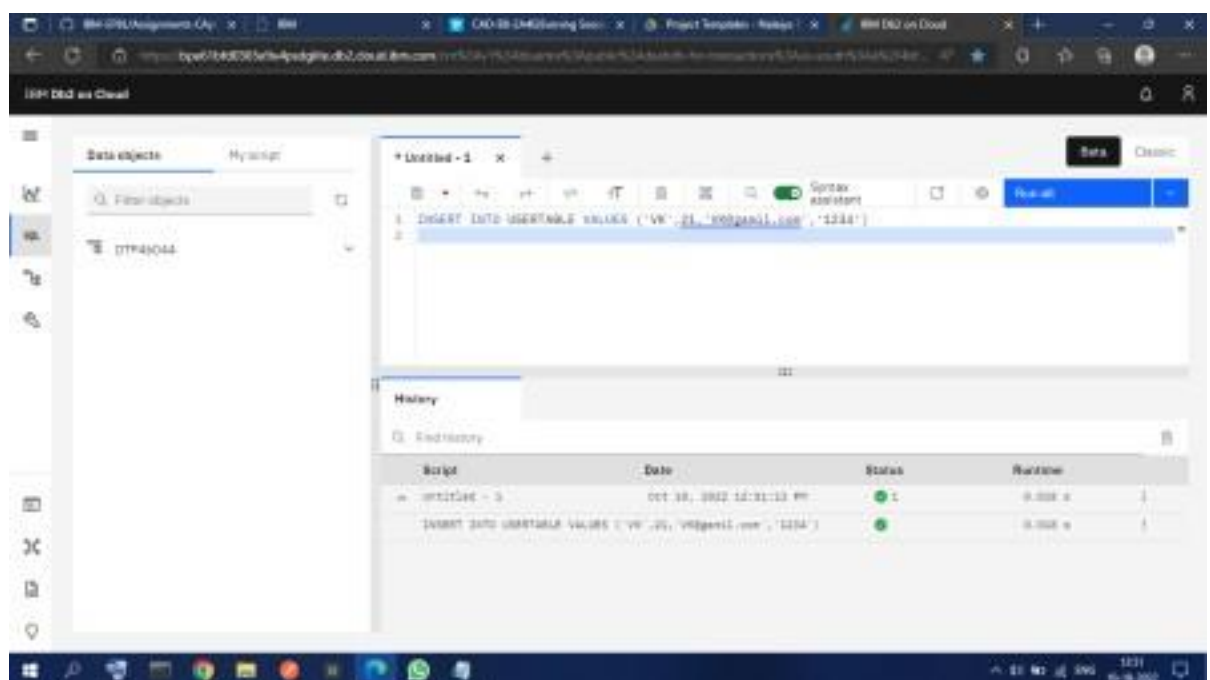
1. Create User table with user with email, username, roll number, password.





2. Perform UPDATE,DELETE Queries with user table.

UPDATE TABLE:-



IBM DB2 on Cloud

Load Data Load History Tables Views Indexes Aliases MQTs Sequences Application objects

DTP46044.USERTABLE Back

Export to CSV

USERNAME	ROLLNO	EMAIL	PASSWORD
RA	25	RA@gmail.com	1234

DELETE TABLE:-

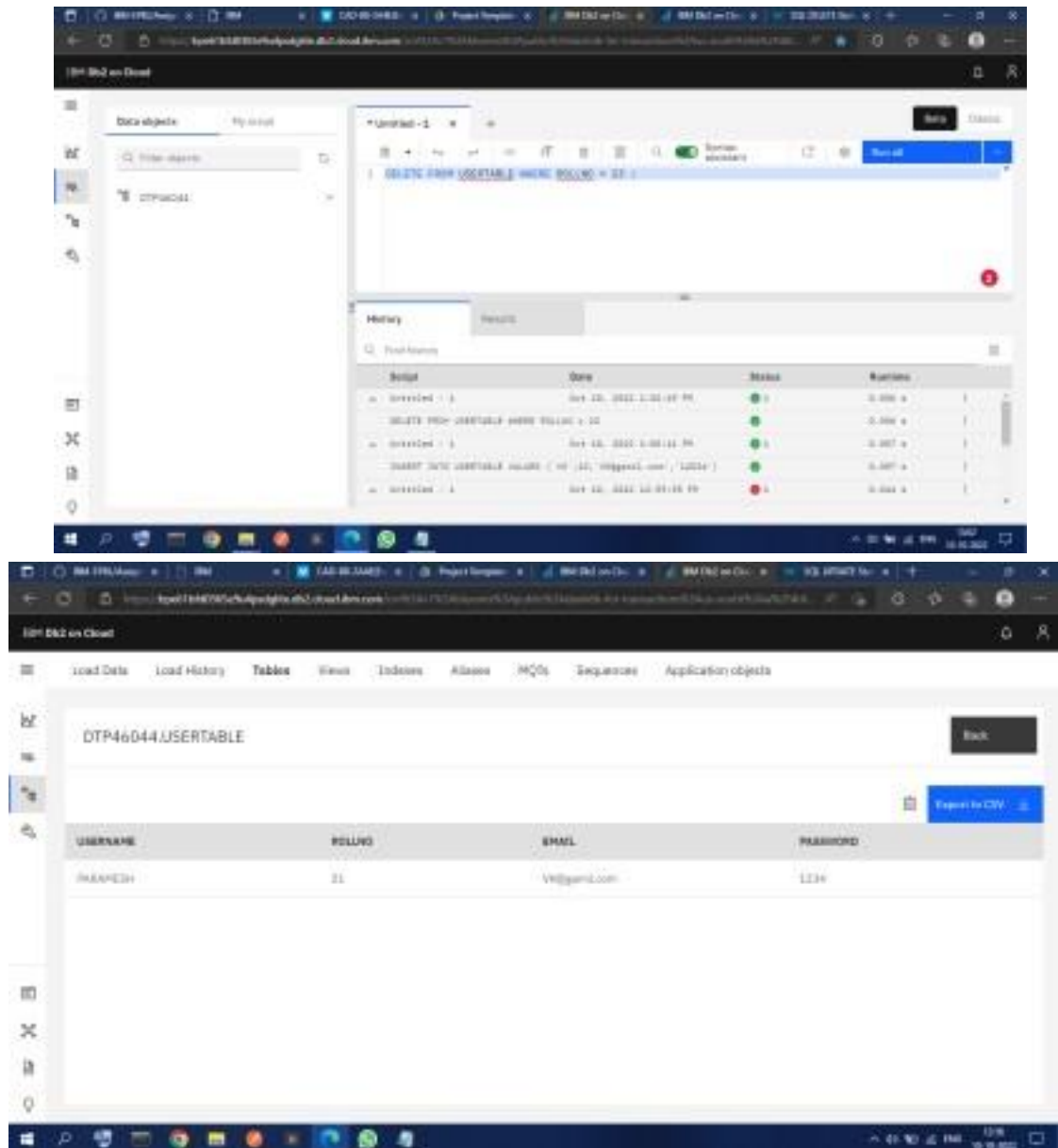
IBM DB2 on Cloud

Load Data Load History Tables Views Indexes Aliases MQTs Sequences Application objects

DTP46044.USERTABLE Back

Export to CSV

USERNAME	ROLLNO	EMAIL	PASSWORD
PARANJAN	25	RA@gmail.com	1234
RA	25	RA@gmail.com	1234



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 re
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;USERNA M
E=dtp46044;PASSWORD=95soX0sZGhb4ToUj;SECURITY=SSL;SSLSERVERCERTIFICATE=DigiCe
r 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'^[^\s@]+@[^\s@]+\.[^\s@]+', 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(prepare_stmt, 1, username) ibm_db.bind_param(prepare_stmt, 2,
            email) ibm_db.bind_param(prepare_stmt, 3, password) ibm_db.execute(prepare_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']

        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(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"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.cs s "
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="stylesheet">
<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">{{ 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

```

<!DOCTYPE html>
<html lang="en">

<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">

<!-- favicon -->
<!-- <link rel="shortcut icon" href="/assets/img/favicon.ico" type="image/x-icon"> -->
<!-- <link rel="icon" href="/assets/img/favicon.ico" type="image/x-icon">
-->
<link rel="icon" type="image/png" sizes="16x16" href="/assets/img/favicon
32x32.png">
<!-- bootstrap css cdn -->
<link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.cs s "
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/style2.css">
<!-- font styles cdn -->
<link 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 "
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="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>

<button type="submit" id="button" class="btn btn-primary"> Login

<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;
}

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;

width: 90%;
}

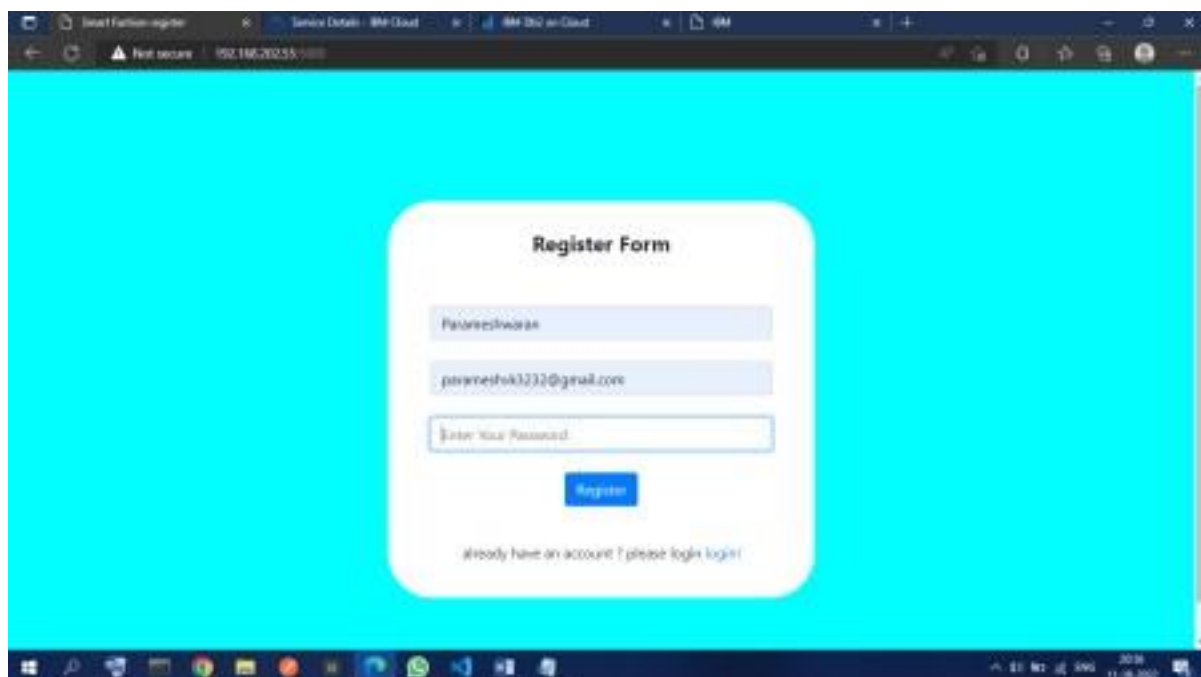
.form-text-vk {
font-size: small; padding-bottom: 10px;
}

.form-text-h2 {
}

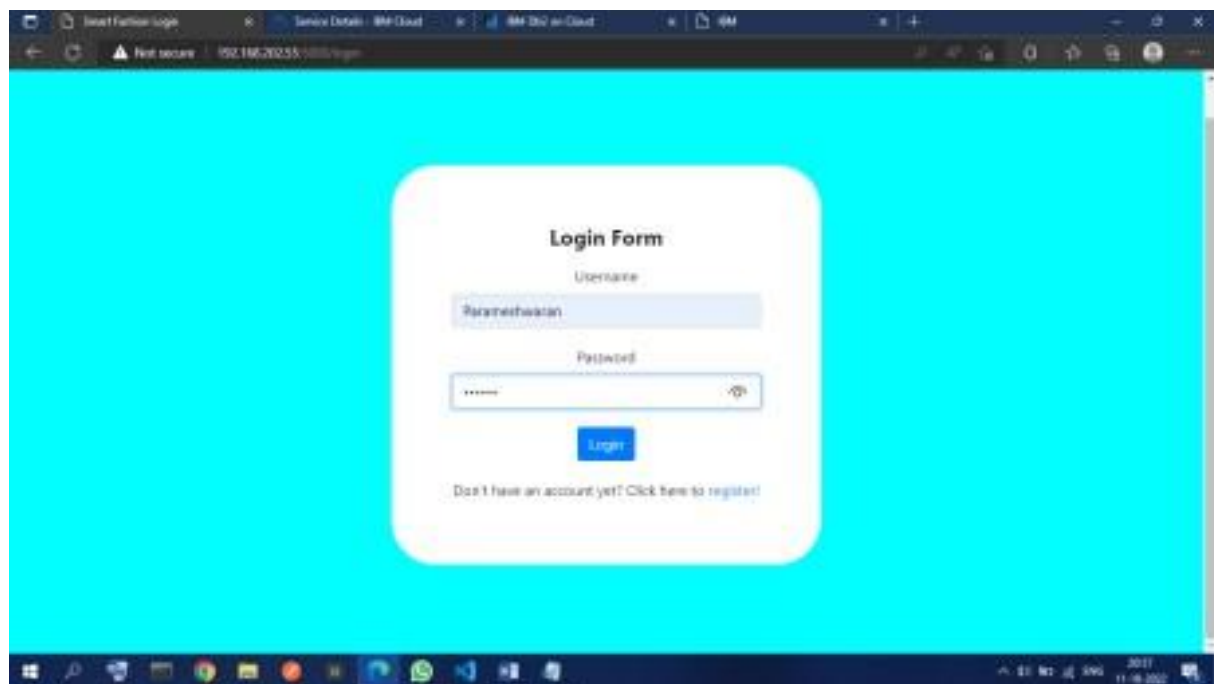
```

Output:

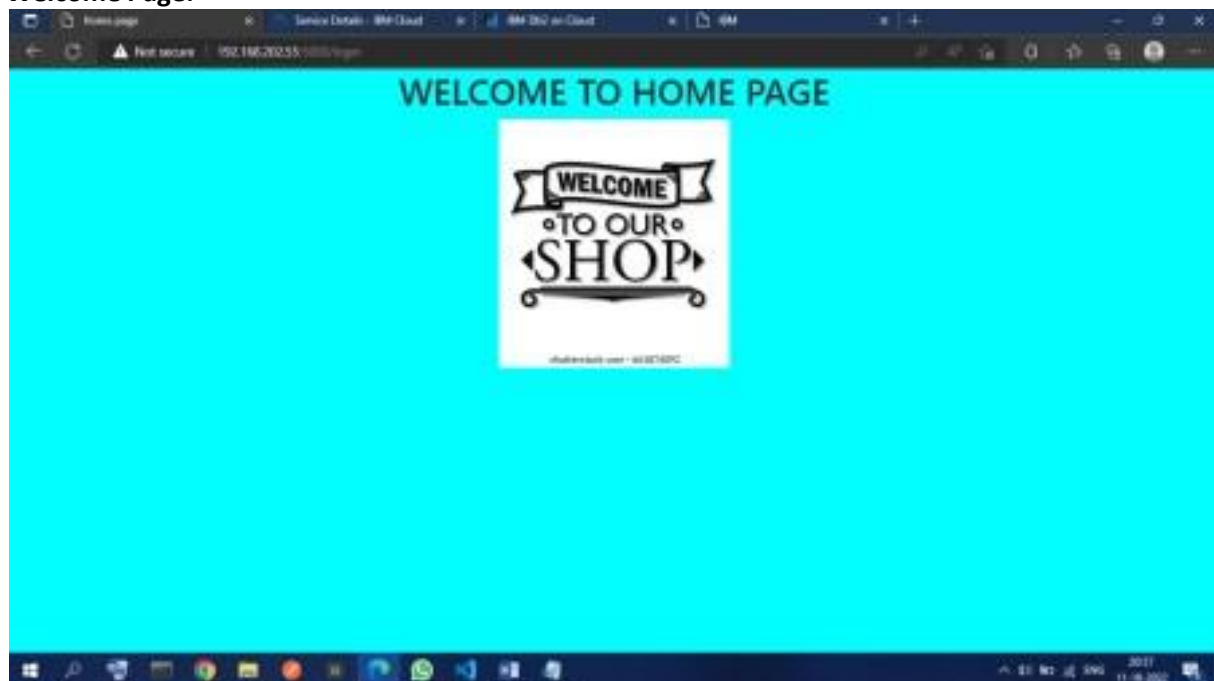
Register form:



Login Page:-



Welcome Page:-



Data Base Table :-

The screenshot shows the IBM Cloud console interface for a database. The top navigation bar includes tabs for 'Load Data', 'Load History', 'Tables', 'Views', 'Indexes', 'Aliases', 'MQTs', 'Sequences', and 'Application objects'. The 'Tables' tab is selected, displaying a table named 'DTP46044.USERS'. The table has three columns: 'USERNAME', 'EMAIL', and 'PASSWORD'. A single row is visible with the following data: 'Parasrathwast' for USERNAME, 'parasrathwast123123@gmail.com' for EMAIL, and a masked password for PASSWORD. The interface also includes a 'Back' button and a 'Reset to CSV' button.

USERNAME	EMAIL	PASSWORD
Parasrathwast	parasrathwast123123@gmail.com	[Masked]