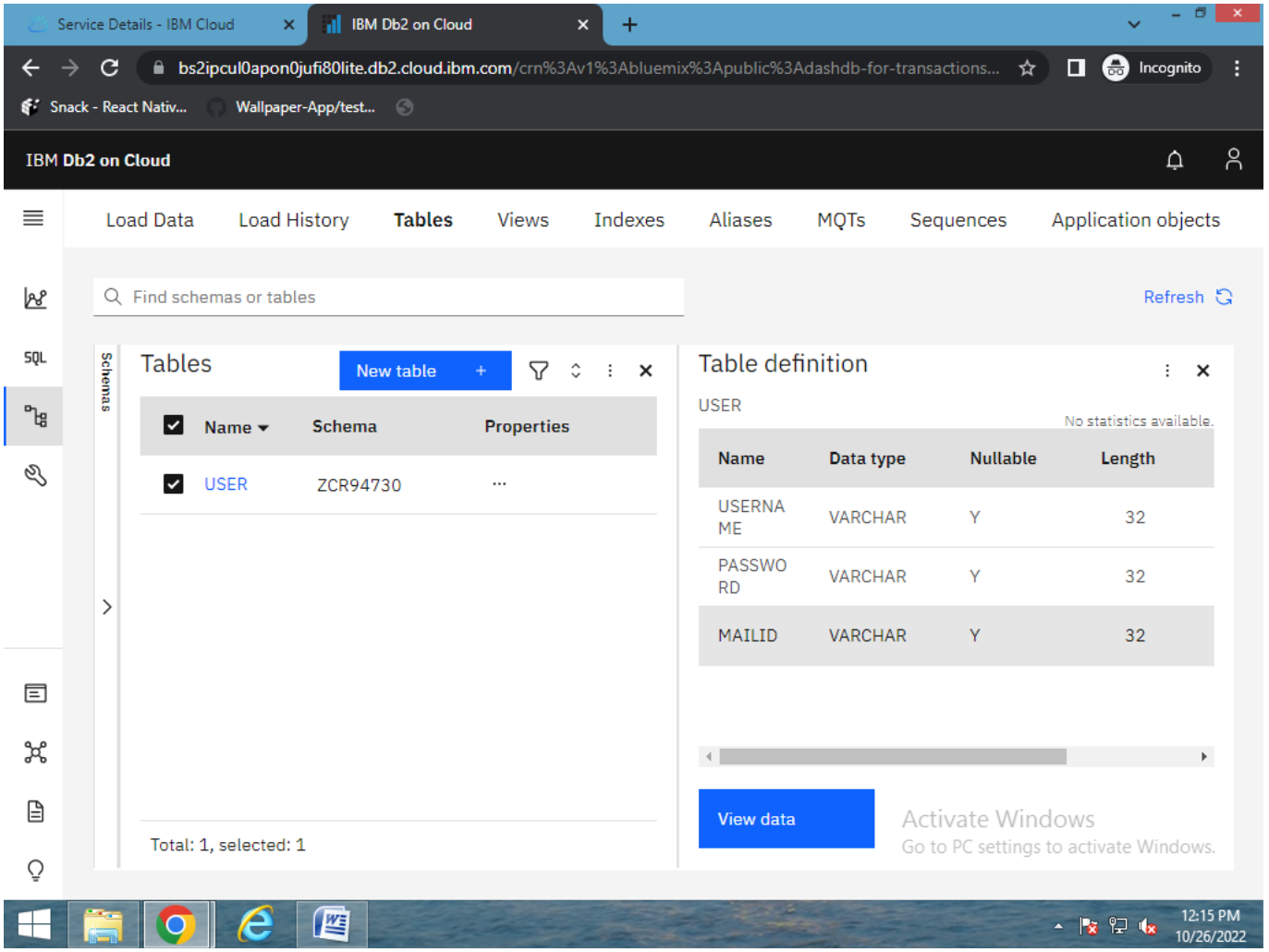
ASSIGNMENT 3

TEAM ID	PNT2022TMID27406
PROJECT NAME	NEWS TRACKER APPLICATION
NAME	MITHWIN IMMANUEL STANLEY
ROLL NO	311019205029

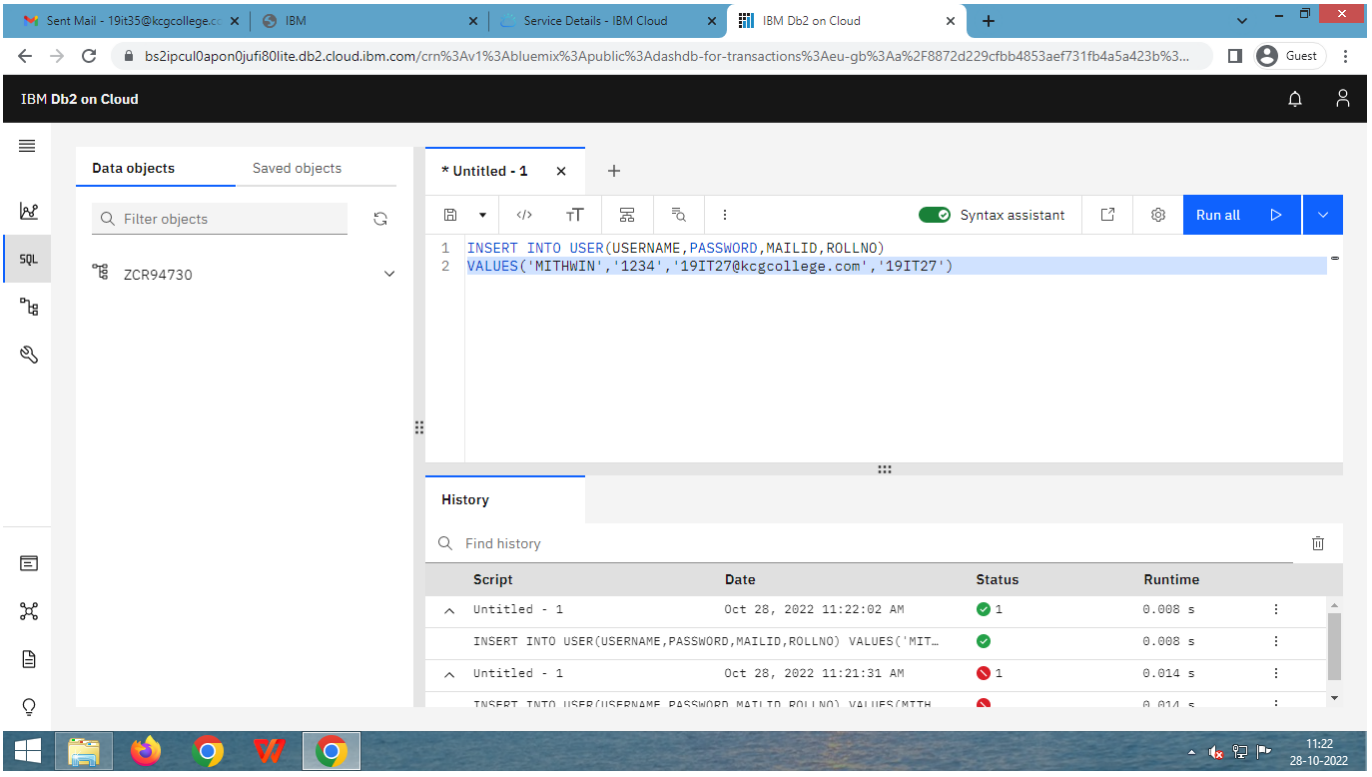
Questions:

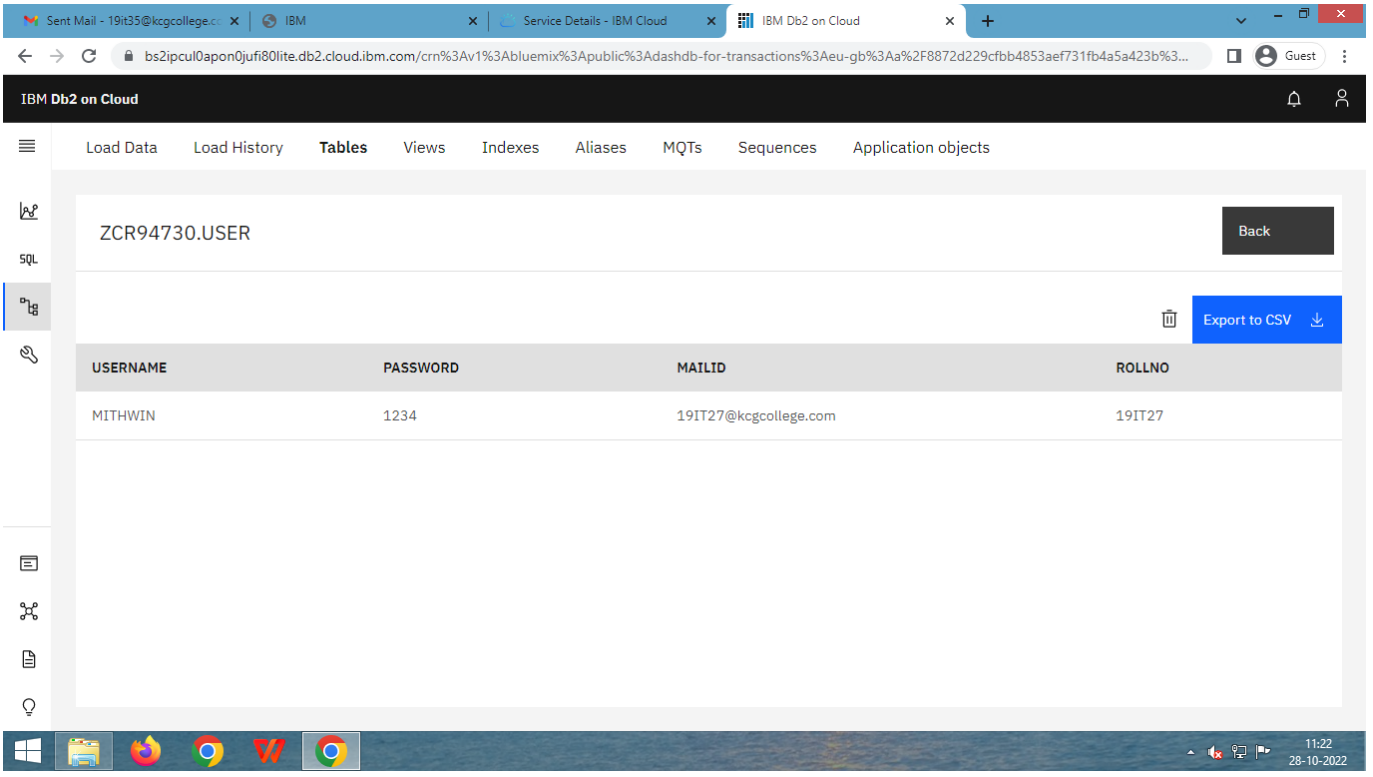
1. Create User table with user with email, username, roll number, password.



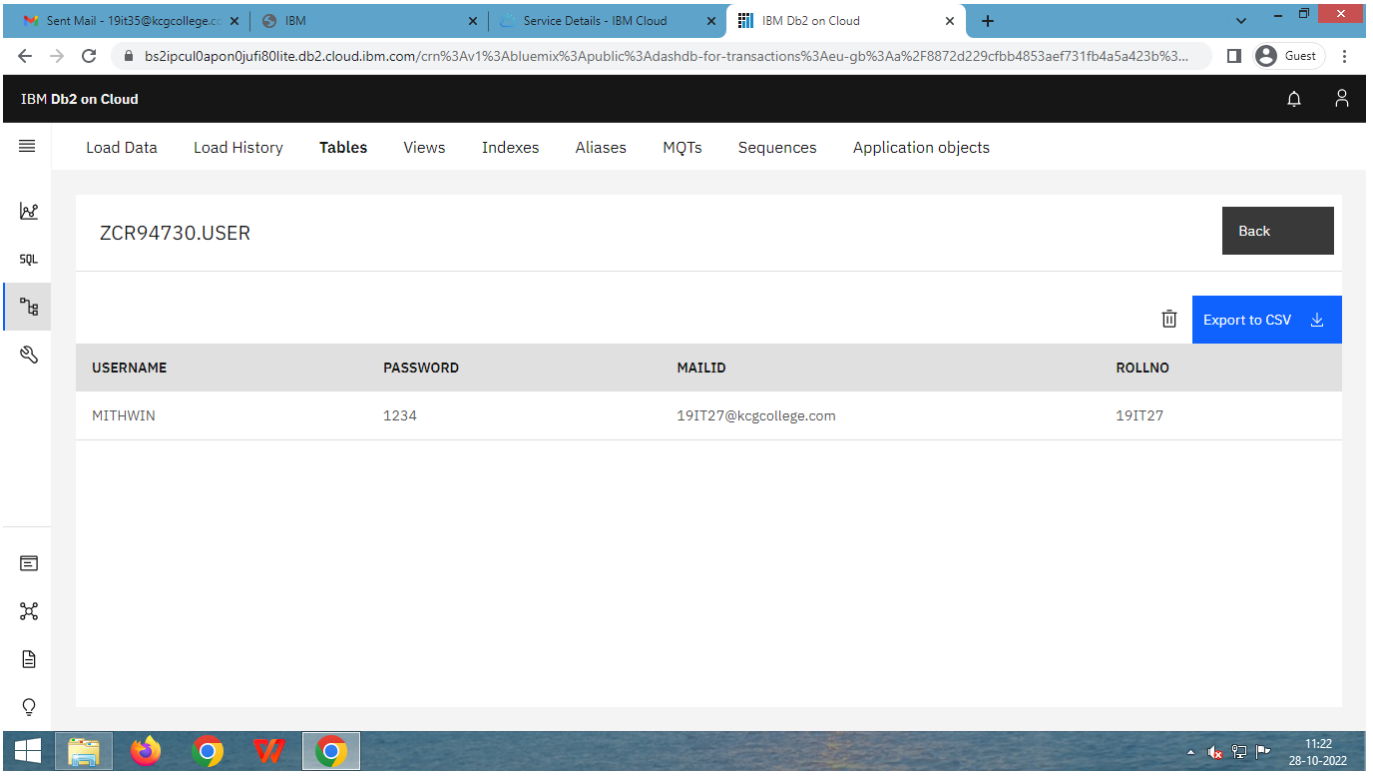
2. Perform UPDATE,DELETE Queries with user table.

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

s

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;", "", "")


@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'[^@]+@[^@]+\.[^@]+',
            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 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.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="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">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Smart Fashion Login</title>
    <!-- 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.css
"
```

```
        integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9
UJ0Z" 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="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" 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>

                                                    </form>
                                                </div>
</button>

                                        </body>

                                        </html>

  href="/">register! </a>
                </p>
                </div>
```

```
<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
```

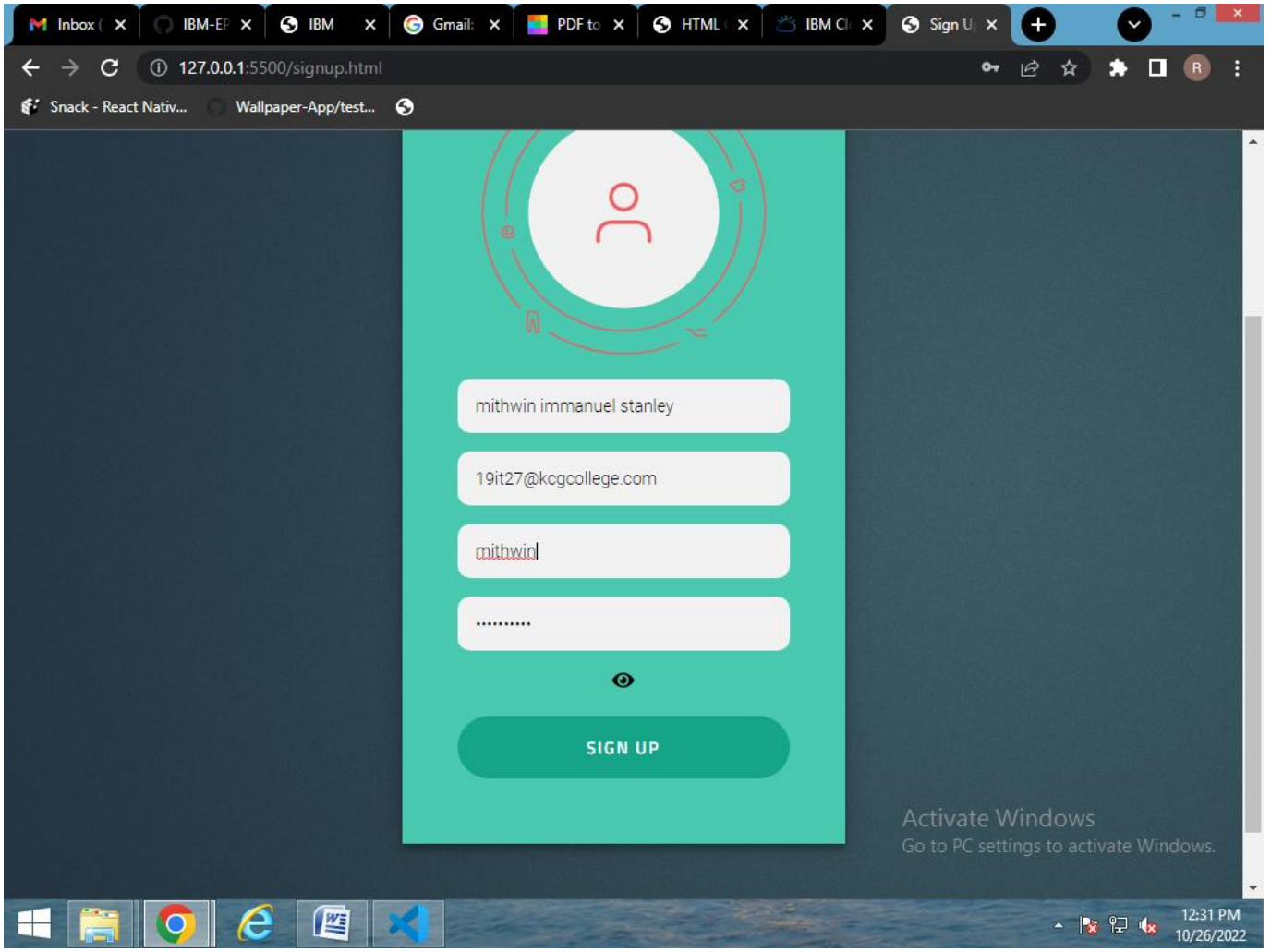
Style.css

```
* {
    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-
```

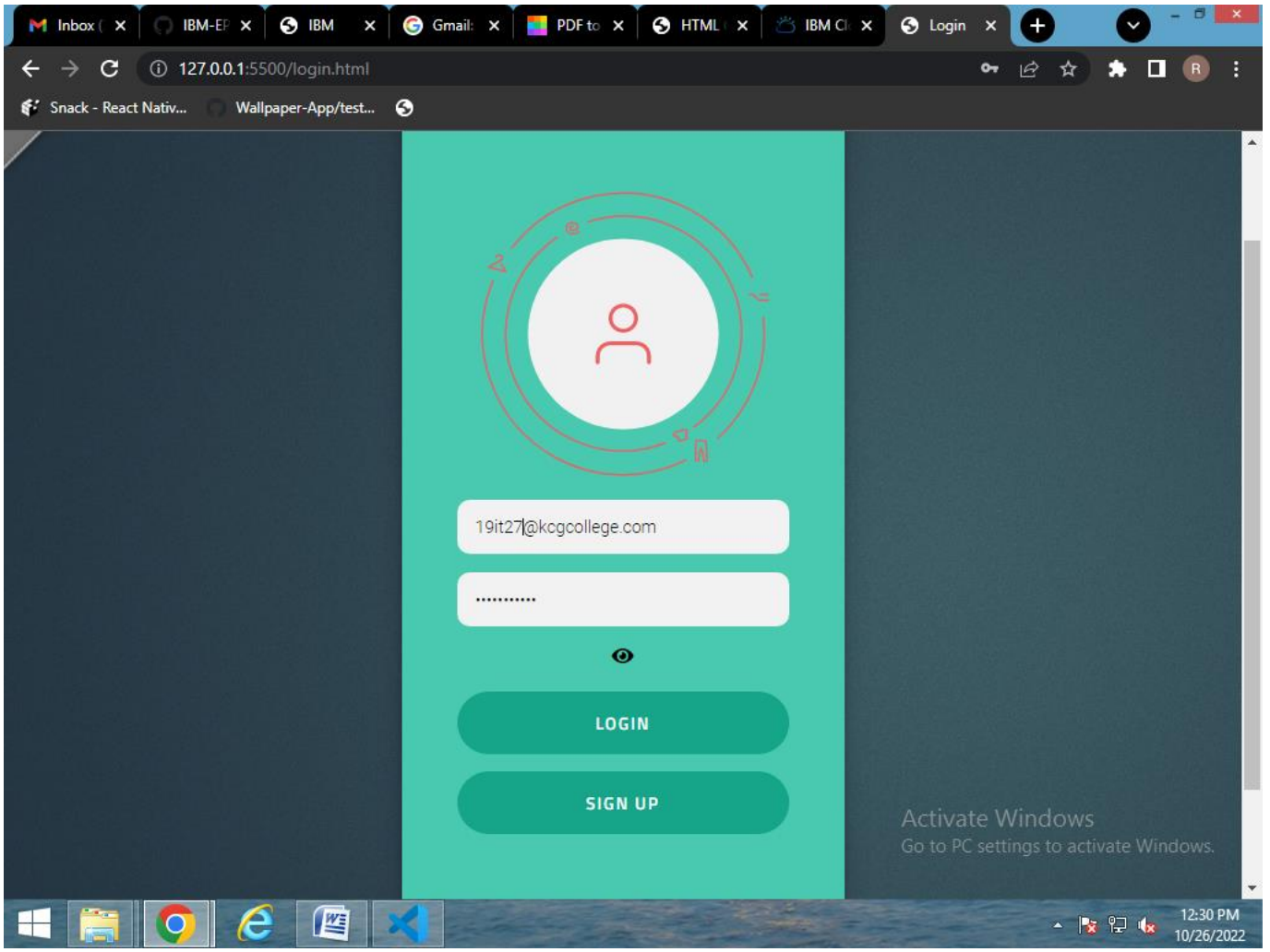
```
    direction: column;
    width: 90%;
}

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

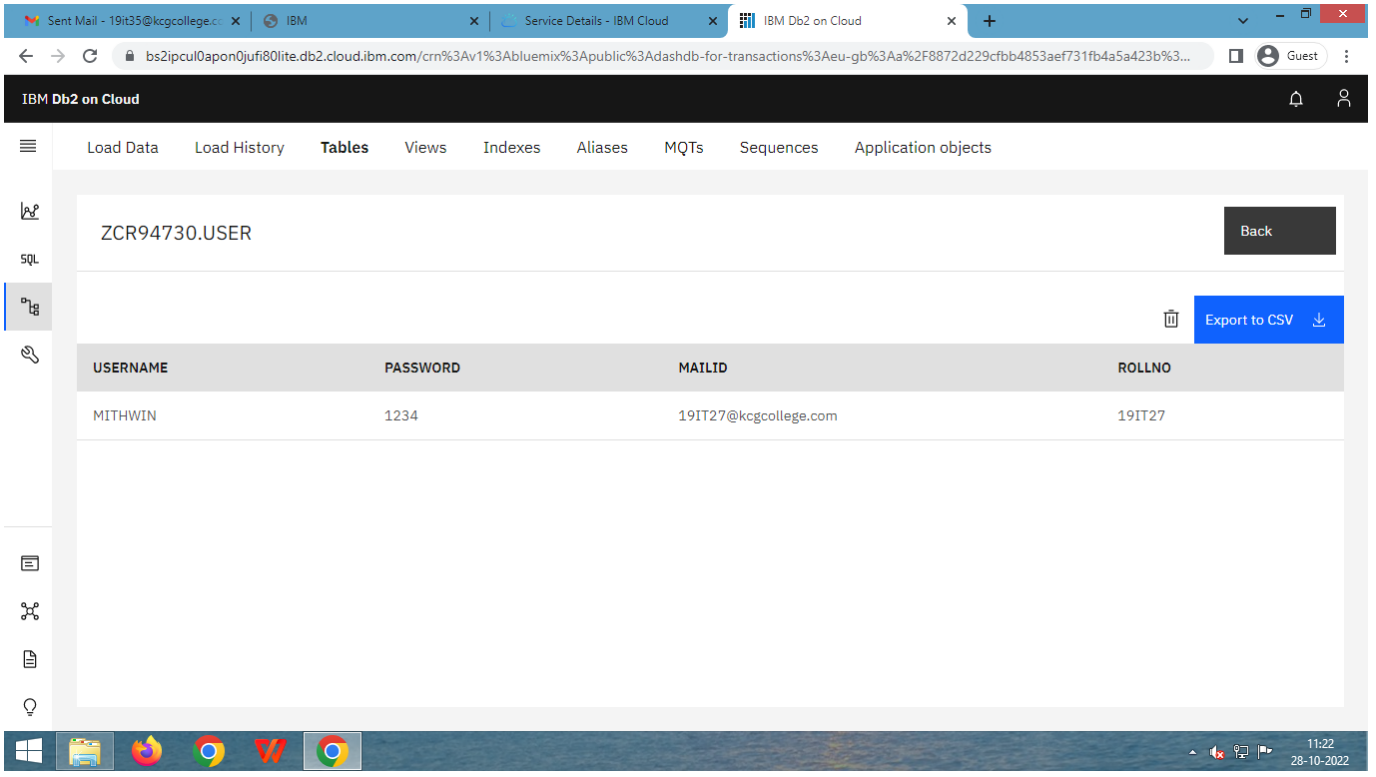
```
}

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

Output:-
registration page:-



Login Page:-


Inbox
IBM-EP
IBM
Gmail:
PDF to
HTML
IBM Cl
Login
127.0.0.1:5500/login.html
Snack - React Nativ...
Wallpaper-App/test...
19it27@kcgcollege.com
LOGIN
SIGN UP
Activate Windows
Go to PC settings to activate Windows.
12:30 PM
10/26/2022

Welcome Page:-

Data Base Table :-