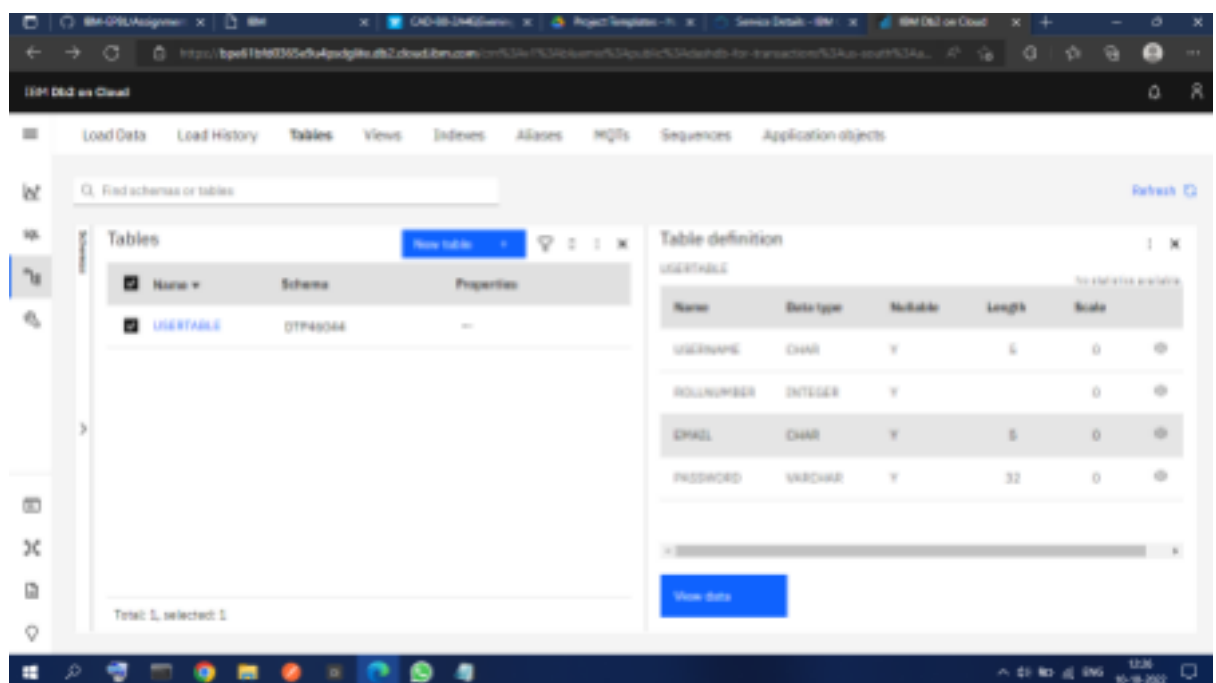


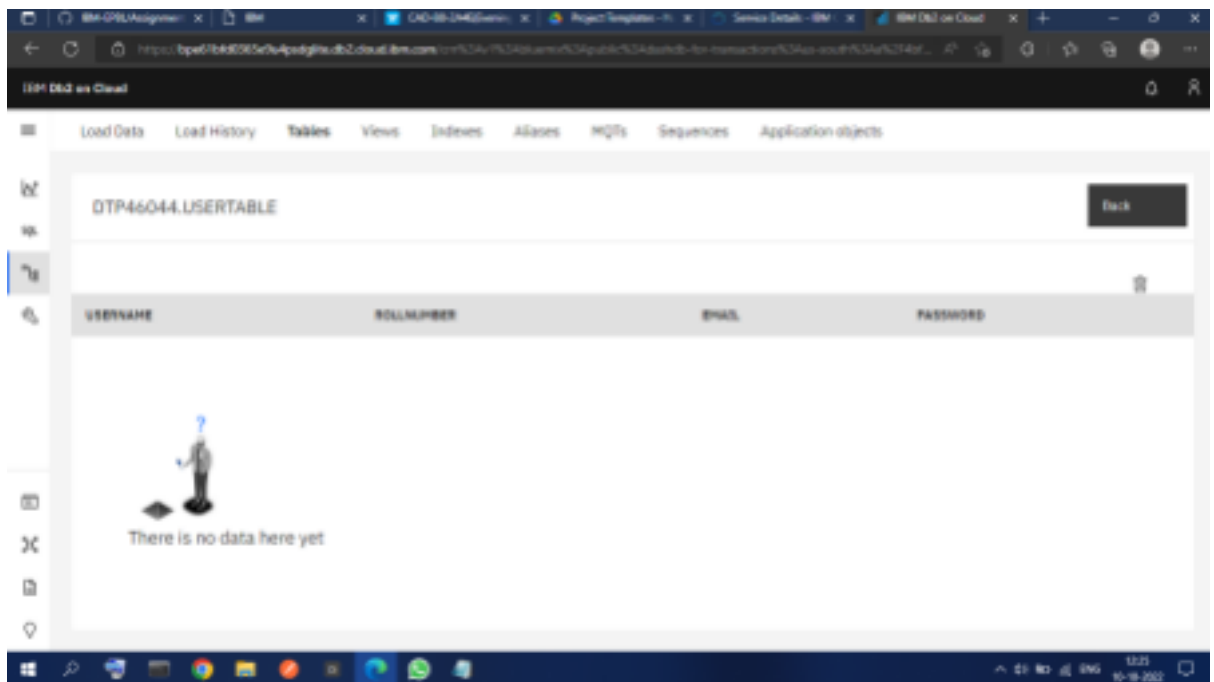
**Assignment -2**  
**IBM CLOUD DB2**

Assignment Date 29 September 2022
Student Name VEMPATI VEERA VENKATA SIVA SATYANARAYANA
Student Roll Number 111519106170
Maximum Marks 2 Marks

**Questions:**

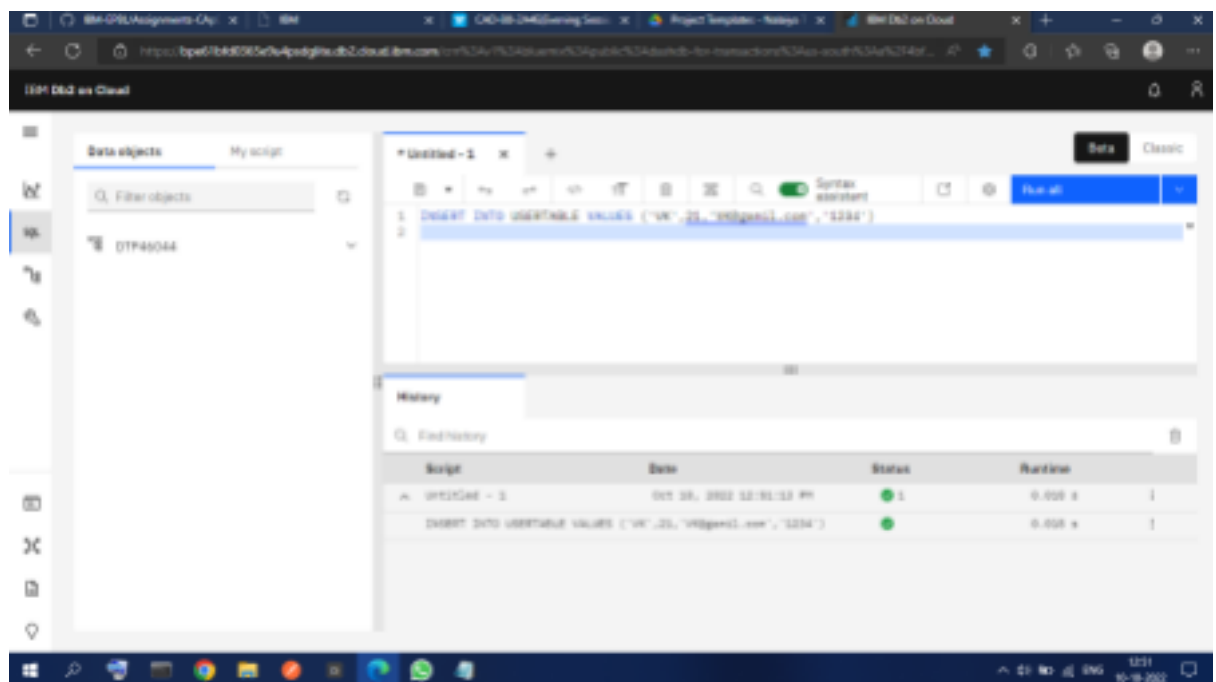
1. Create User table with user with email, username, roll number, password.





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
VN	25	VN@gmail.com	3334

DELETE TABLE:-

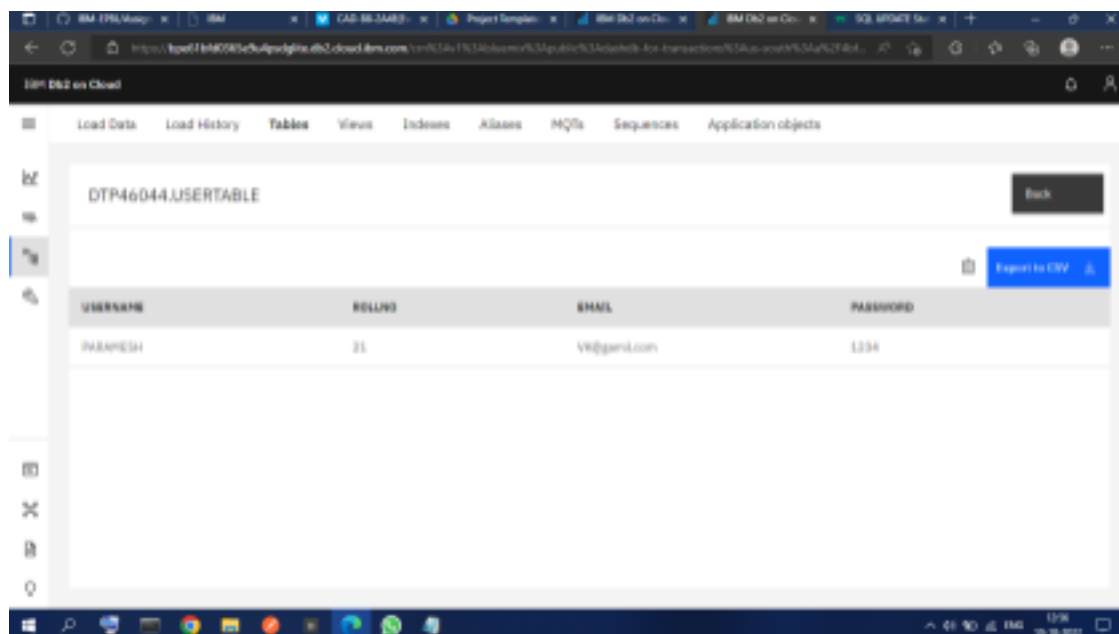
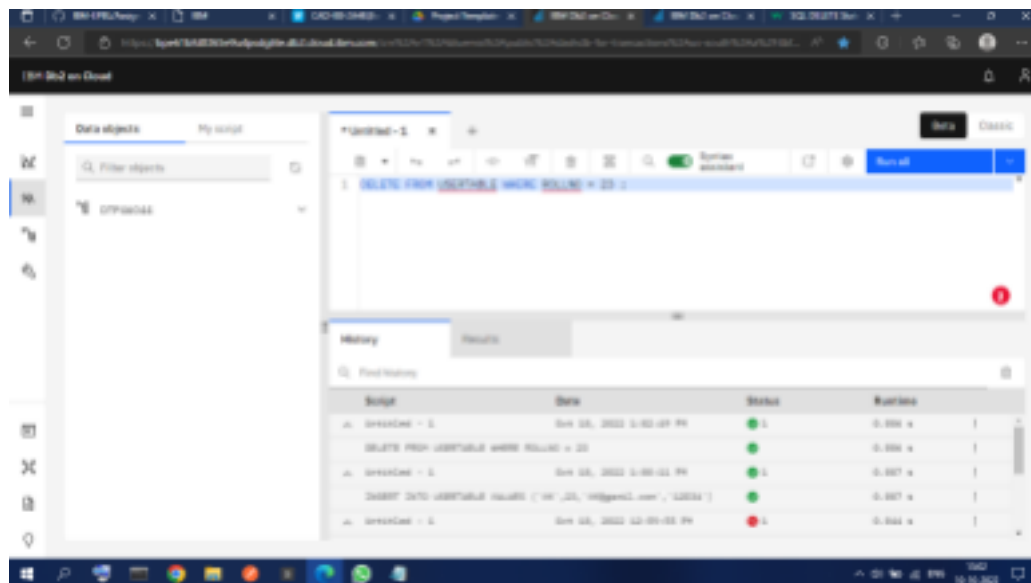
IBM Db2 on Cloud

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

DTP46044.USERTABLE Back

Export to CSV

USERNAME	ROLLNO	EMAIL	PASSWORD
PARAMARSH	25	vn@gmail.com	3334
VN	25	VN@gmail.com	3334



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;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'^[^\@]+\@[^\@]+\.[^\@]+', 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']
    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.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">
  <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.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="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>

    <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;
}

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:-**

Smart Fashion register

Service Details - Web Cloud

Web Cloud on Cloud

Web

Not secure | 192.168.202.55:3000

### Register Form

Username

parameashwan

Email

parameashwari3212@gmail.com

Password

Enter Your Password

Register

already have an account ? please login [login!](#)

Windows taskbar: 2024 11-18-2022

#### Login Page:-

Smart Fashion login

Service Details - Web Cloud

Web Cloud on Cloud

Web

Not secure | 192.168.202.55:3000/login

### Login Form

Username

Parameashwan

Password

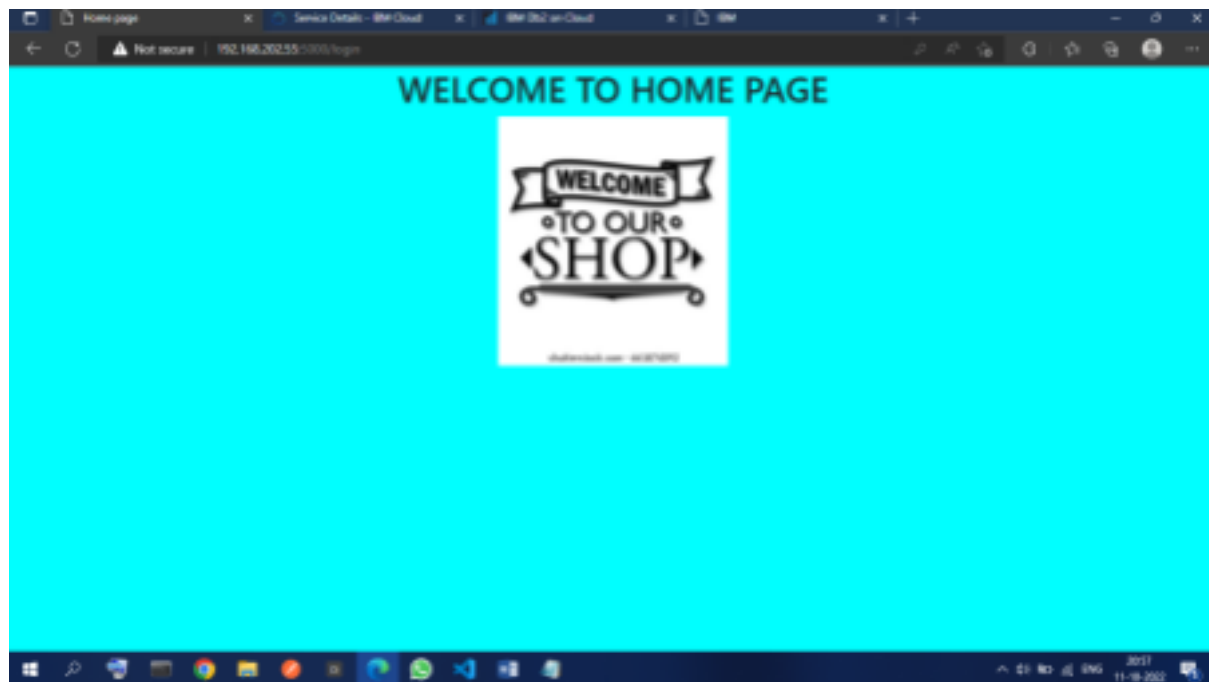
xxxxxx

Login

Don't have an account yet? Click here to [register!](#)

Windows taskbar: 2024 11-18-2022

#### Welcome Page:-



#### Data Base Table :-

