ASSIGNMENT - 2

Assignment Date	22 September 2022
Student Name	SATHYAN A
Student Roll Number	63830 47393
Maximum Marks	2 Marks

QUESTION:

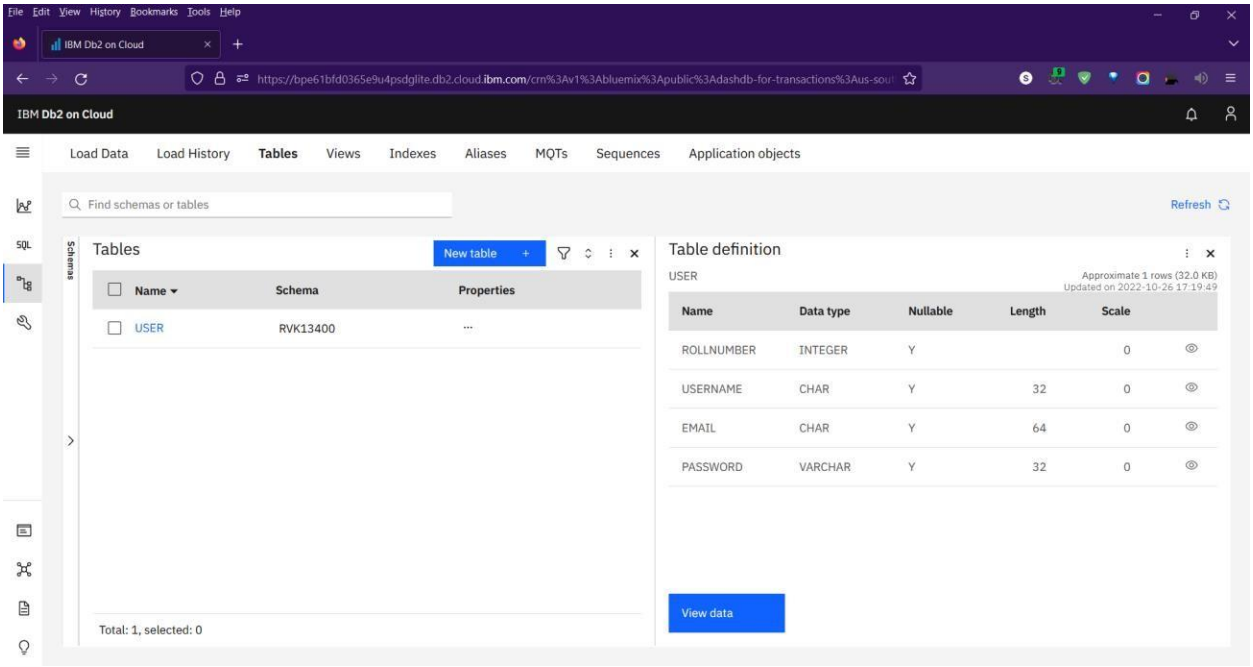
1. Create User table with user with email, username, roll number, password.

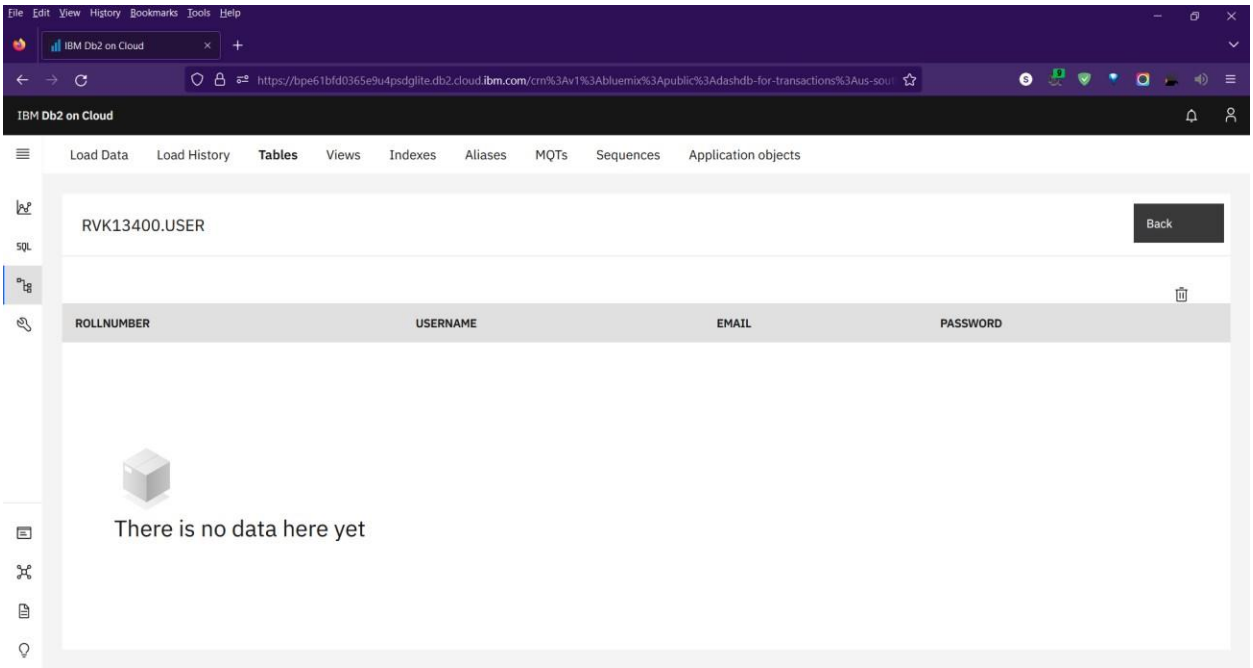
2. Perform UPDATE, DELETE Queries with user table.

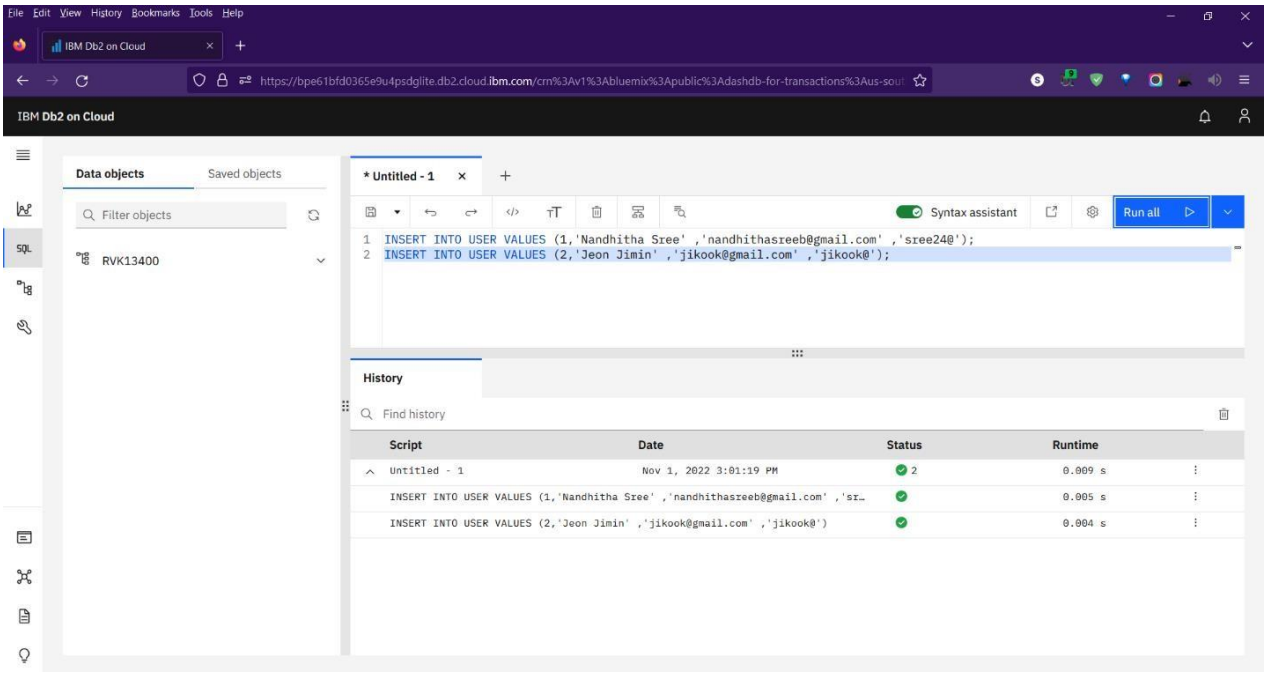
3. Connect python code to db2.

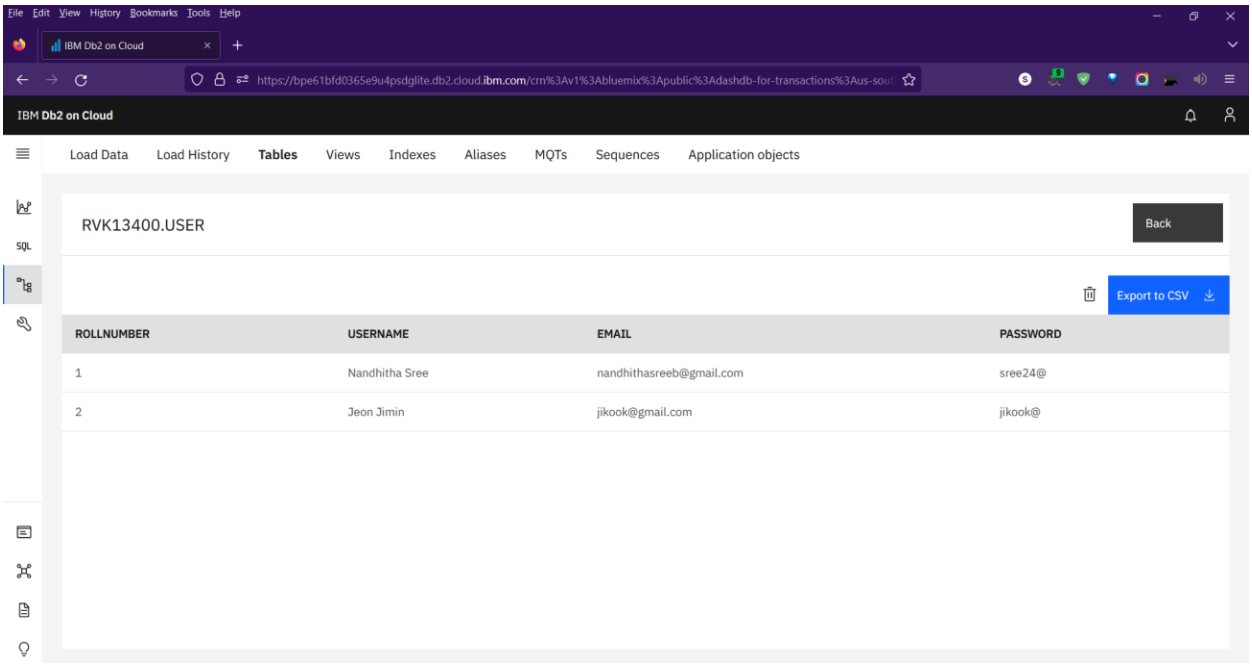
4. Create a flask app with registration page, login page and welcome page. By default, load the registration page once the user enters all the fields store the data in database and navigate to login page authenticate user username and password. If the user is valid show the welcome page.

1. CREATE USER TABLE WITH USER WITH EMAIL, USERNAME, ROLL NUMBER, PASSWORD.



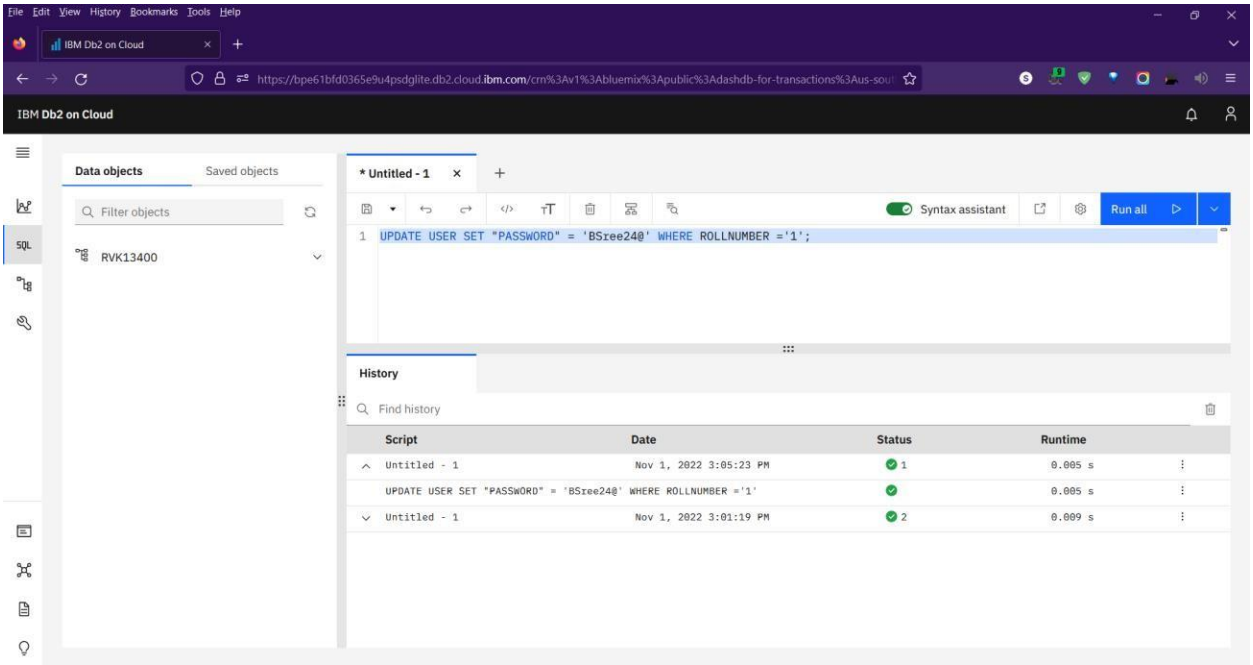


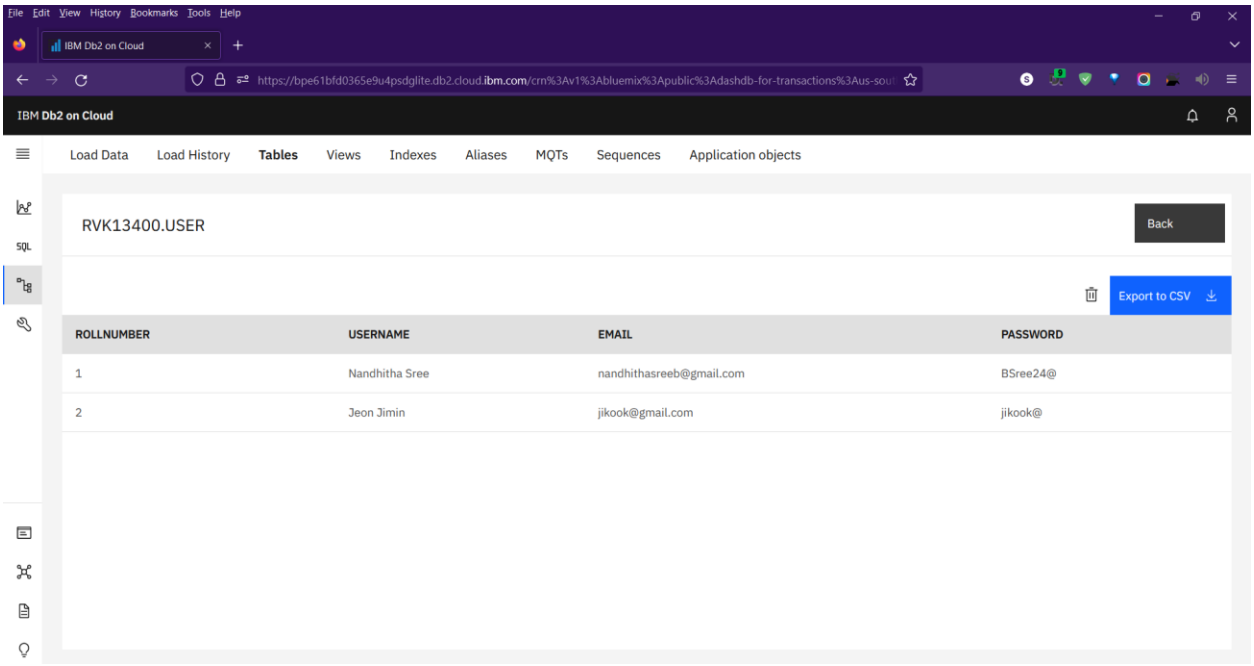

IBM Db2 on Cloud
IBM Db2 on Cloud
Data objects
Saved objects
Filter objects
RVK13400
* Untitled - 1
Syntax assistant
Run all
1 INSERT INTO USER VALUES (1,'Nandhitha Sree' ,'nandhithasreeb@gmail.com' ,'sree24@');
2 INSERT INTO USER VALUES (2,'Jeon Jimin' ,'jikook@gmail.com' ,'jikook@');
History
Find history
Script
Date
Status
Runtime
Untitled - 1
Nov 1, 2022 3:01:19 PM
2
0.009 s
INSERT INTO USER VALUES (1,'Nandhitha Sree' ,'nandhithasreeb@gmail.com' ,'sr…
0.005 s
INSERT INTO USER VALUES (2,'Jeon Jimin' ,'jikook@gmail.com' ,'jikook@')
0.004 s


IBM Db2 on Cloud
IBM Db2 on Cloud
Load Data
Load History
Tables
Views
Indexes
Aliases
MQTs
Sequences
Application objects
RVK13400.USER
Back
Export to CSV
ROLLNUMBER
USERNAME
EMAIL
PASSWORD
1
Nandhitha Sree
nandhithasreeb@gmail.com
sree24@
2
Jeon Jimin
jikook@gmail.com
jikook@

2. PERFORM UPDATE, DELETE QUERIES WITH USER TABLE.

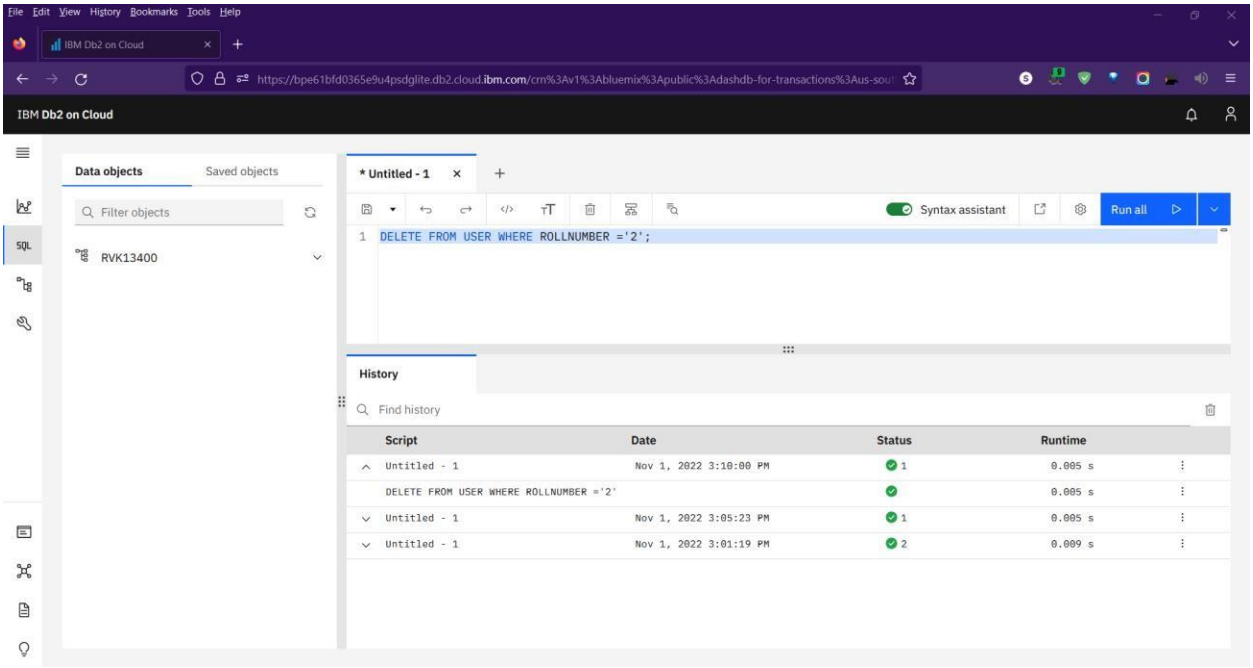
UPDATE TABLE:

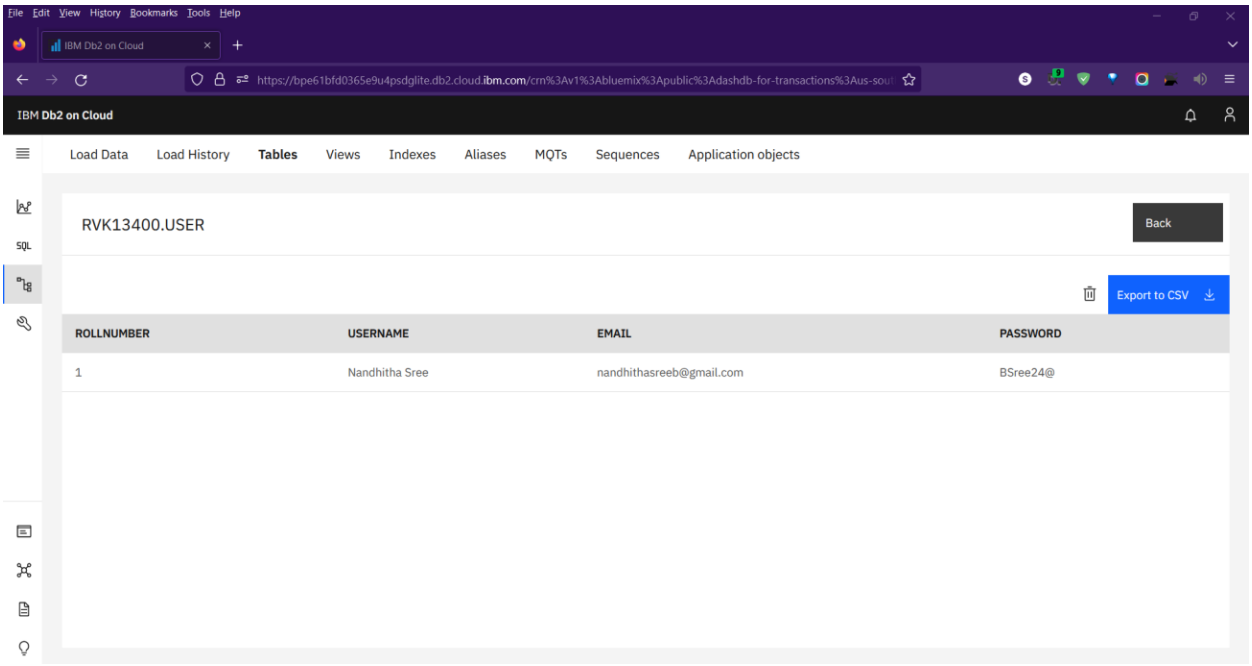




Thus, for ROLL NUMBER 1 the PASSWORD has been updated from "**Sree24@**" to "**BSree24@**".

DELETE TABLE:





Thus, **ROLLNUMBER 2** has been deleted.

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 & PASSWORD. IF THE USER IS VALID SHOW THE WELCOME PAGE.

App.py

```python
from flask import Flask,render_template,request,redirect,url_for
import ibm_db

dsn_hostname = "b1bc1829-6f45-4cd4-bef4-10cf081900bf.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud"
dsn_uid = "hpv31478"        # e.g. "abc12345"
dsn_pwd = "2XPWmWWR2uFsRgL"      # e.g. "7dBZ3wWt9XN6$o0J"
dsn_driver = "{IBM DB2 CLI}"
dsn_database = "bludb"            # e.g. "BLUDB"
dsn_port = "32304"                # e.g. "32733"
dsn_protocol = "TCPIP"            # i.e. "TCPIP"
dsn_security = "SSL"              #i.e. "SSL
dsn_cert="DigiCertGlobalRootCA.crt"
dsn = ("DRIVER={0};""DATABASE={1};""HOSTNAME={2};""PORT={3};""PROTOCOL={4};""UID={5};""PWD={6};""SECURITY={7};""SSLServerCertificate={8};").format(dsn_driver, dsn_database, dsn_hostname, dsn_port, dsn
conn = ibm_db.connect(dsn, "", "")
app= Flask(__name__)
@app.route("/",methods=('GET','POST'))
def regpage():
    if request.method == 'POST':
        USERNAME = request.form['username']
        PHONE = request.form['phone']
        PASSWORD = request.form['password']
        CPASSWORD = request.form['cpassword']
        insertQuery = "INSERT INTO USER VALUES ('"+USERNAME+"','"+PHONE+"','"+PASSWORD+"','"+CPASSWORD+"')"
        insertStmt = ibm_db.prepare(conn, insertQuery)
        ibm_db.execute(insertStmt)
        return redirect(url_for('loginpage'))
    return render_template("register.html")
@app.route("/login",methods=('GET','POST'))
def loginpage():
    if request.method == 'POST':
        phone = request.form['phone']
        password = request.form['password']
        query = "select COUNT(*) from user where phone='"+phone+"' and password='"+password+"'"
        stmt5 = ibm_db.exec_immediate(conn,query)
        row = ibm_db.fetch_tuple(stmt5)
        if(row[0] ==1 ):
            return redirect(url_for('home_page'))
    return render_template("login.html")
def home_page():
    return render_template("dashboard.html")
if(__name__=='__main__'):
    app.run()
```

Register.html

```html
<head>
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="stylesheet" href="/static/style.css">
  <title>Registration page </title>
</head>
<body>
  <div class="container">
    <div class="title">Registration</div>
    <div class="content">
      <form method="post">
        <div class="user-details">
          <div class="input-box">
            <span class="details">Username</span>
            <input type="text" placeholder="Enter your username" name="username" value="{{request.form['username']}}" required>
          </div>
          <div class="input-box">
            <span class="details">Phone Number</span>
            <input type="text" placeholder="Enter your number" name="phone" value="{{request.form['phone']}}" required>
          </div>
          <div class="input-box">
            <span class="details">Password</span>
            <input type="password" placeholder="Enter your password" name="password" value="{{request.form['password']}}" required>
          </div>
          <div class="input-box">
            <span class="details">Confirm Password</span>
            <input type="password" placeholder="Confirm your password" name="cpassword" value="{{request.form['cpassword']}}" required>
          </div>
        </div>
        <div class="button"><input type="submit" value="Register"></div>
      </form>
    </div>
  </div>
  </body>
</html>
```

Login.html

dashboard.html | login.html | 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">
  <link rel="stylesheet" href="/static/style.css">
  <link rel="stylesheet" href="{{url_for('static',filename='style.css')}}" type="text/css">
    <title>Login Page</title>
</head>
<body>
  <div class="container">
    <div class="title">Login</div>
    <div class="content">
      <form method="post" action="login">
        <div class="user-details">
          <div class="input-box">
      <span class="details">Phone Number</span>
            <input type="text" placeholder="Enter your number" name="phone" value="{{request.form['phone']}}" required>
          </div>
      <br>
          <div class="input-box">
            <span class="details">Password</span>
            <input type="password" placeholder="Enter your password" name="password" value="{{request.form['password']}}" required>
          </div>
        </div>
        <div class="button">
          <input type="submit" value="Login">
        </div>
      </form>
    </div>
  </div></body>
</html>
```

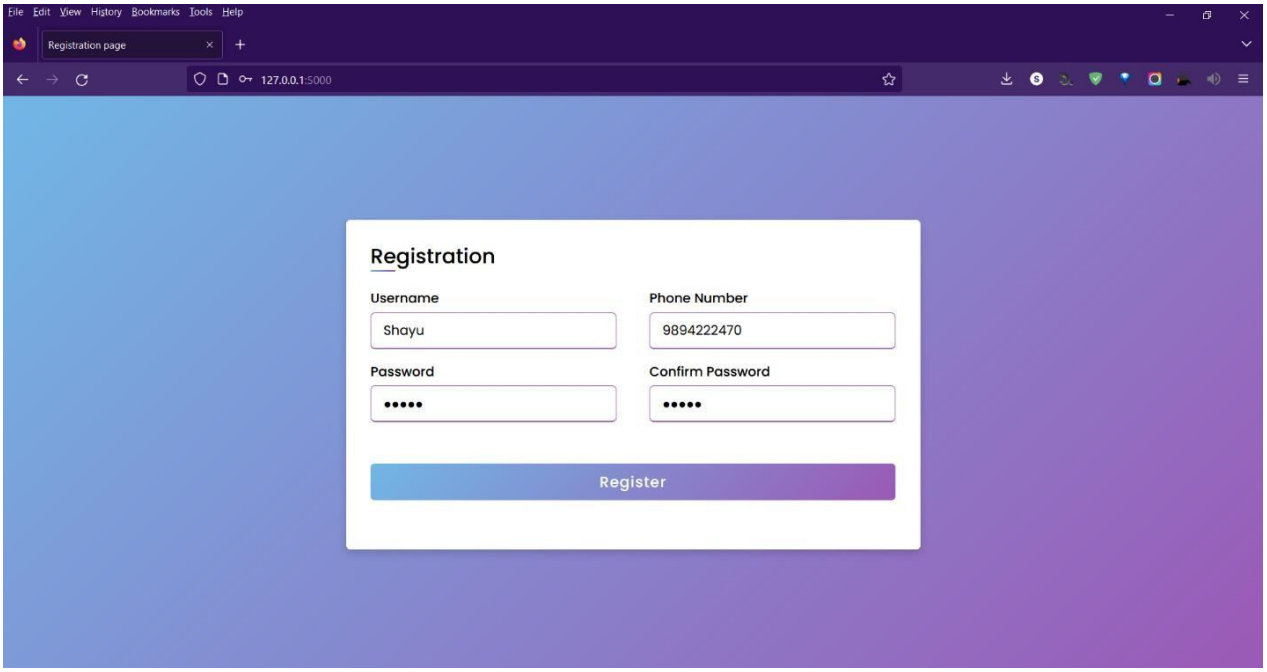
Style.css

style.css

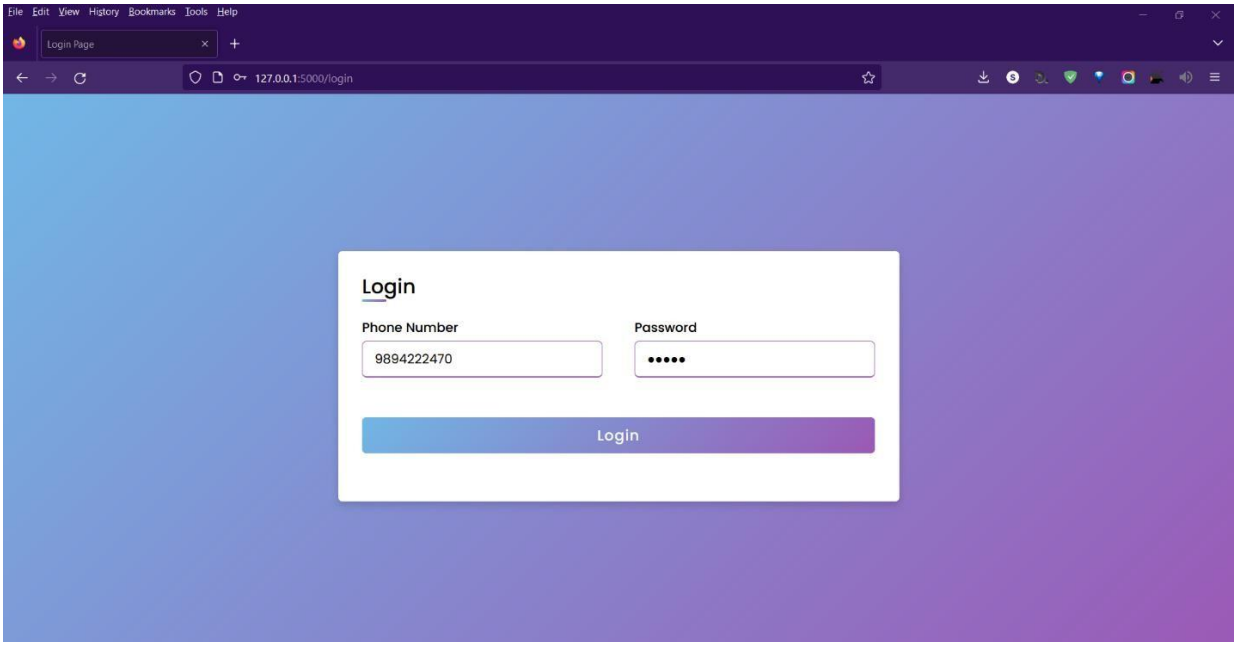
```
*{
    margin: 0;
    padding: 0;
    box-sizing: border-box;
    font-family: 'Poppins',sans-serif;
}
body{
    height: 100vh;
    display: flex;
    justify-content: center;
    align-items: center;
    padding: 10px;
    background: linear-gradient(135deg, #71b7e6, #9b59b6);
}
.container{
    max-width: 700px;
    width: 100%;
    background-color: #fff;
    padding: 25px 30px;
    border-radius: 5px;
    box-shadow: 0 5px 10px rgba(0,0,0,0.15);
}
.container .title{
    font-size: 25px;
    font-weight: 500;
    position: relative;
}
.container .title::before{
    content: "";
    position: absolute;
    left: 0;
    bottom: 0;
    height: 3px;
    width: 30px;
    border-radius: 5px;
    background: linear-gradient(135deg, #71b7e6, #9b59b6);
}
```

OUTPUT: -

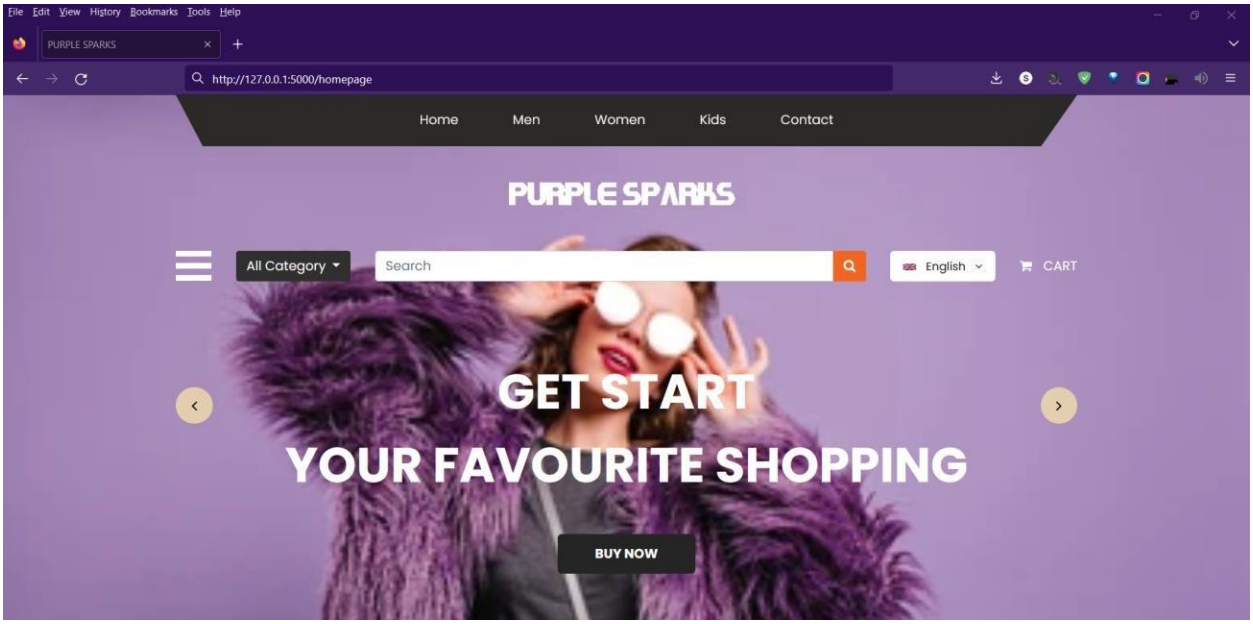
Registration Page: -



Login Page: -



Welcome Page: -



Database Table: -