ASSIGNMENT - 2

Assignment Date	22 September 2022
Student Name	Vimala P
Student Roll Number	95071915053
Maximum Marks	2 Marks

QUESTION:

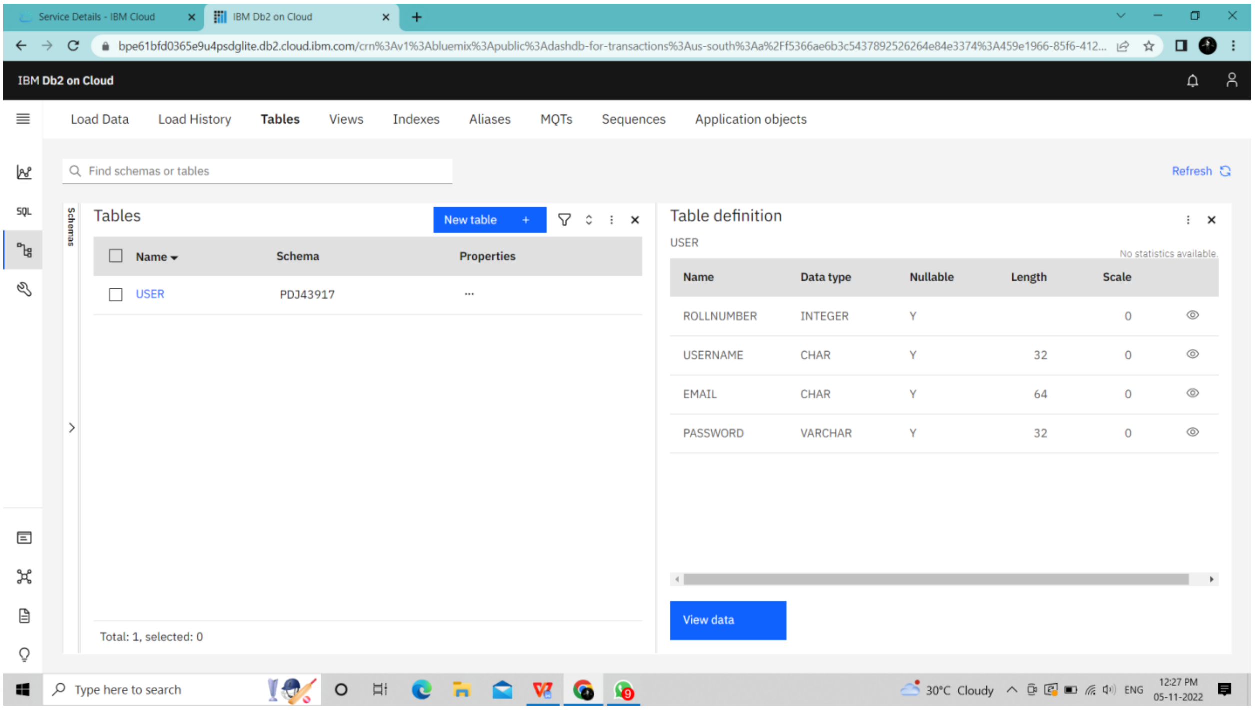
1. Create User table with user with email, username, roll number, password.

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.



Tables

Name	Schema	Properties
USER	PDJ43917	···

Total: 1, selected: 0

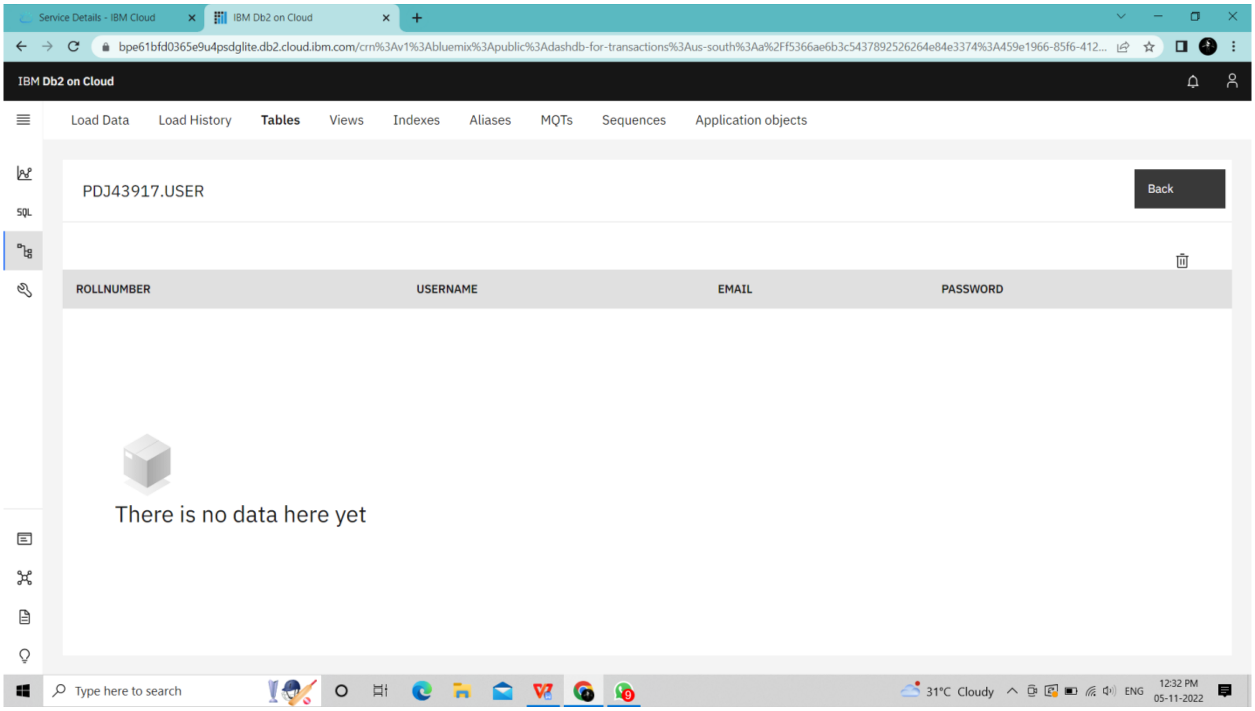
Table definition

USER

No statistics available.

Name	Data type	Nullable	Length	Scale
ROLLNUMBER	INTEGER	Y		0
USERNAME	CHAR	Y	32	0
EMAIL	CHAR	Y	64	0
PASSWORD	VARCHAR	Y	32	0

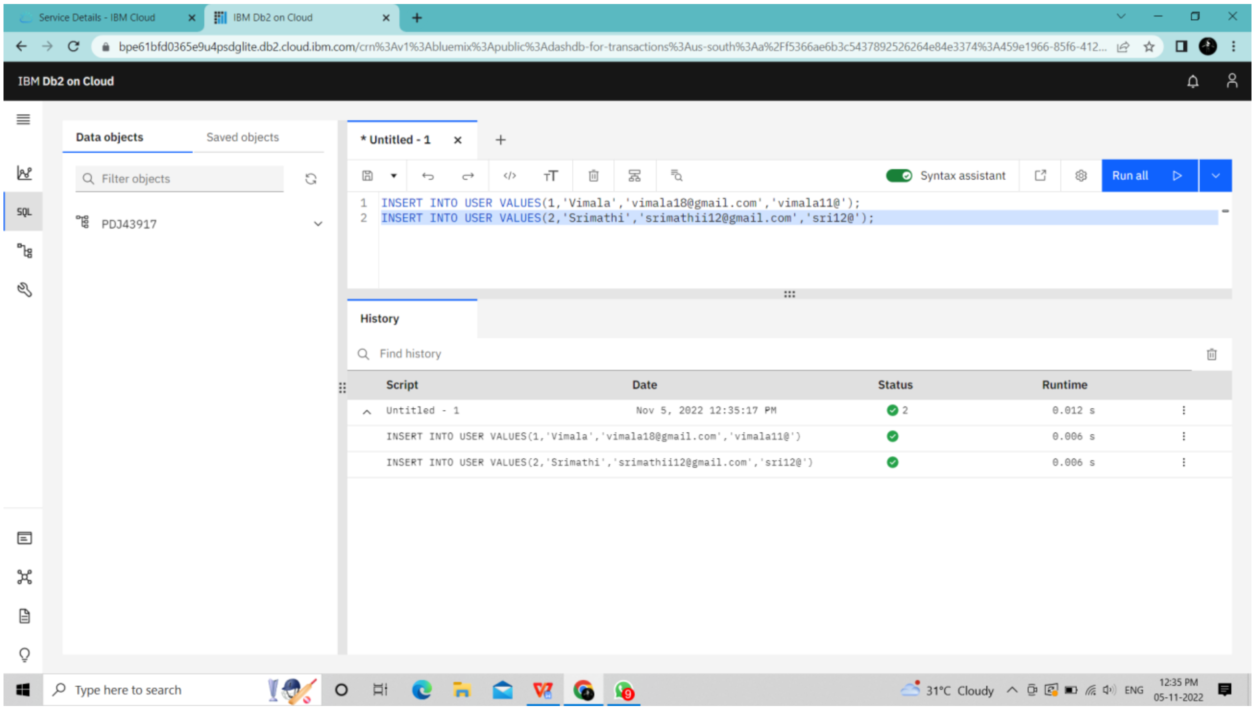
View data


Service Details - IBM Cloud
IBM Db2 on Cloud
bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2Ff5366ae6b3c5437892526264e84e3374%3A459e1966-85f6-412...
IBM Db2 on Cloud
Load Data
Load History
Tables
Views
Indexes
Aliases
MQTs
Sequences
Application objects
SQL
Back
Type here to search
31°C Cloudy
ENG
12:32 PM
05-11-2022

PDJ43917.USER

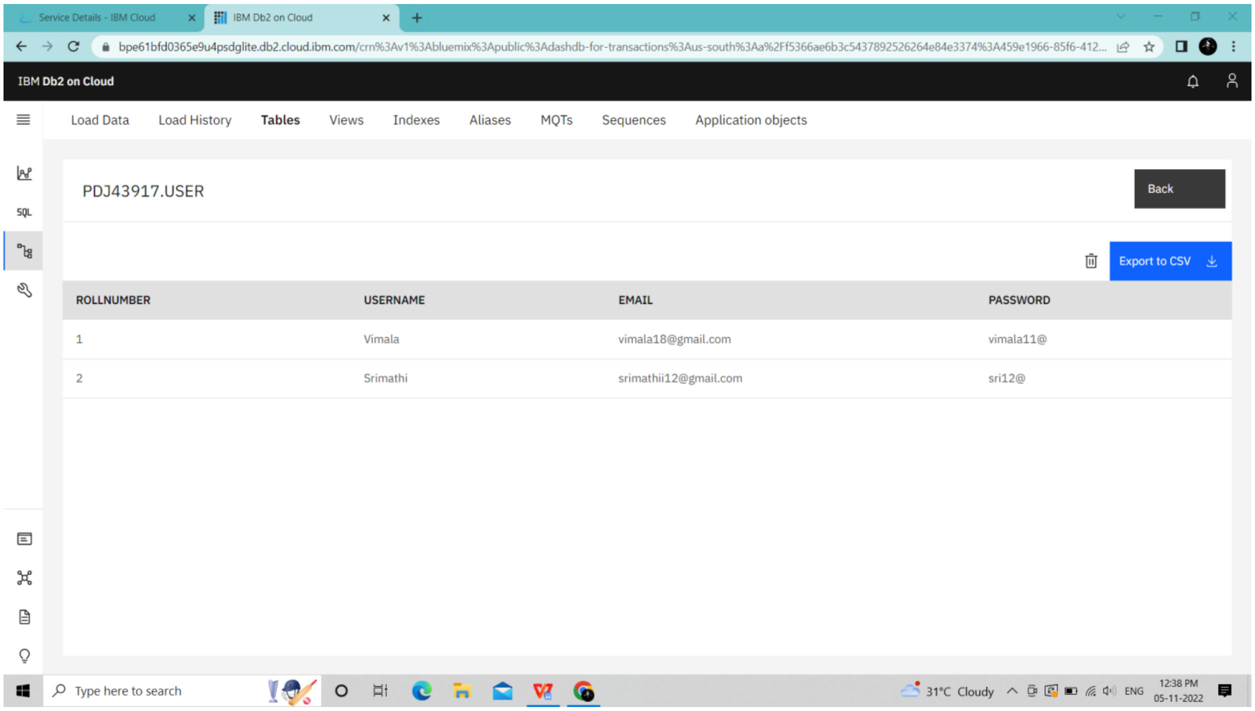
ROLLNUMBER	USERNAME	EMAIL	PASSWORD

There is no data here yet


Service Details - IBM Cloud
IBM Db2 on Cloud
bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2Ff5366ae6b3c5437892526264e84e3374%3A459e1966-85f6-412...
IBM Db2 on Cloud
Data objects
Saved objects
Filter objects
PDJ43917
* Untitled - 1
Syntax assistant
Run all
History
Find history
Type here to search
31°C Cloudy
ENG
12:35 PM
05-11-2022

```
INSERT INTO USER VALUES(1,'Vimala','vimala18@gmail.com','vimala11@');
INSERT INTO USER VALUES(2,'Srimathi','srimathii12@gmail.com','sri12@');
```

Script	Date	Status	Runtime
Untitled - 1	Nov 5, 2022 12:35:17 PM	✓ 2	0.012 s
INSERT INTO USER VALUES(1,'Vimala','vimala18@gmail.com','vimala11@')		✓	0.006 s
INSERT INTO USER VALUES(2,'Srimathi','srimathii12@gmail.com','sri12@')		✓	0.006 s

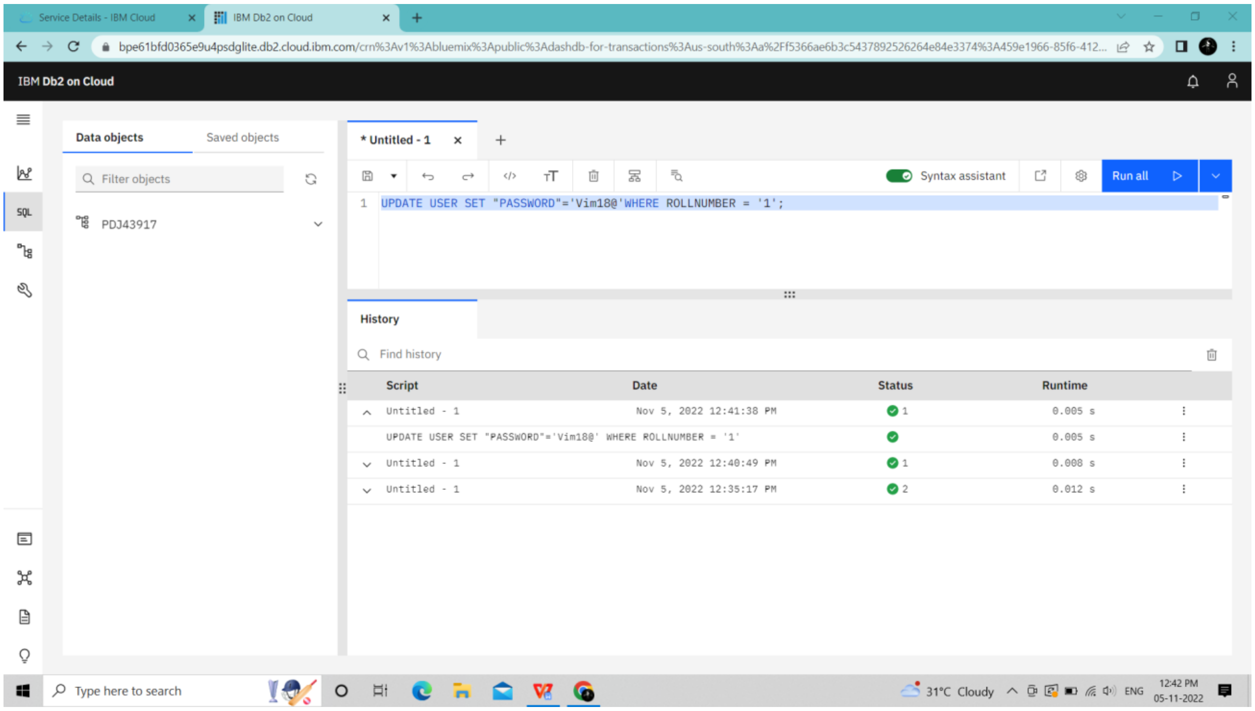

Service Details - IBM Cloud
IBM Db2 on Cloud
bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2Ff5366ae6b3c5437892526264e84e3374%3A459e1966-85f6-412...
IBM Db2 on Cloud
Load Data
Load History
Tables
Views
Indexes
Aliases
MQTs
Sequences
Application objects
Back
Export to CSV
Type here to search
31°C Cloudy
ENG
12:38 PM
05-11-2022

PDJ43917.USER

ROLLNUMBER	USERNAME	EMAIL	PASSWORD
1	Vimala	vimala18@gmail.com	vimala11@
2	Srimathi	srimathii12@gmail.com	sri12@

2. PERFORM UPDATE, DELETE QUERIES WITH USER TABLE.

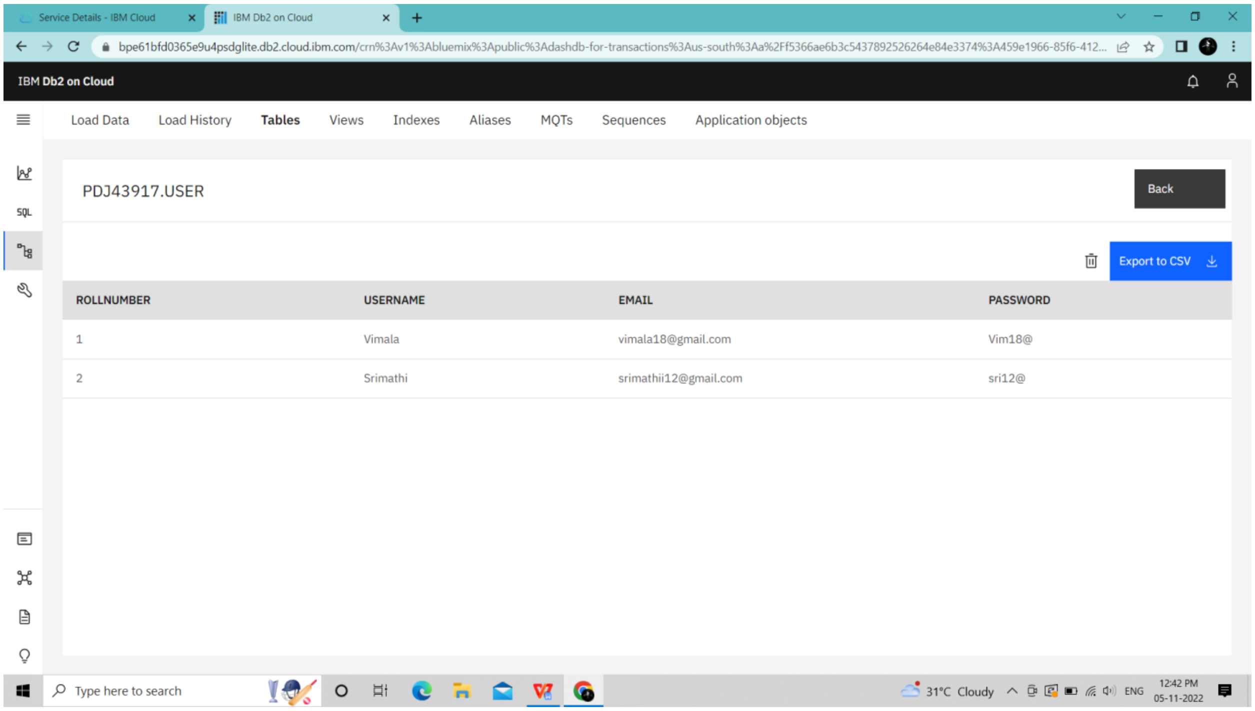
UPDATE TABLE :



```
UPDATE USER SET "PASSWORD"='Vim18@'WHERE ROLLNUMBER = '1';
```

Script	Date	Status	Runtime
Untitled - 1	Nov 5, 2022 12:41:38 PM	✓ 1	0.005 s
UPDATE USER SET "PASSWORD"='Vim18@' WHERE ROLLNUMBER = '1'		✓	0.005 s
Untitled - 1	Nov 5, 2022 12:40:49 PM	✓ 1	0.008 s
Untitled - 1	Nov 5, 2022 12:35:17 PM	✓ 2	0.012 s

Service Details - IBM Cloud
IBM Db2 on Cloud
bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2Ff5366ae6b3c5437892526264e84e3374%3A459e1966-85f6-412...
IBM Db2 on Cloud
Data objects
Saved objects
Filter objects
PDJ43917
* Untitled - 1
Syntax assistant
Run all
History
Find history
Type here to search
31°C Cloudy
ENG
12:42 PM
05-11-2022



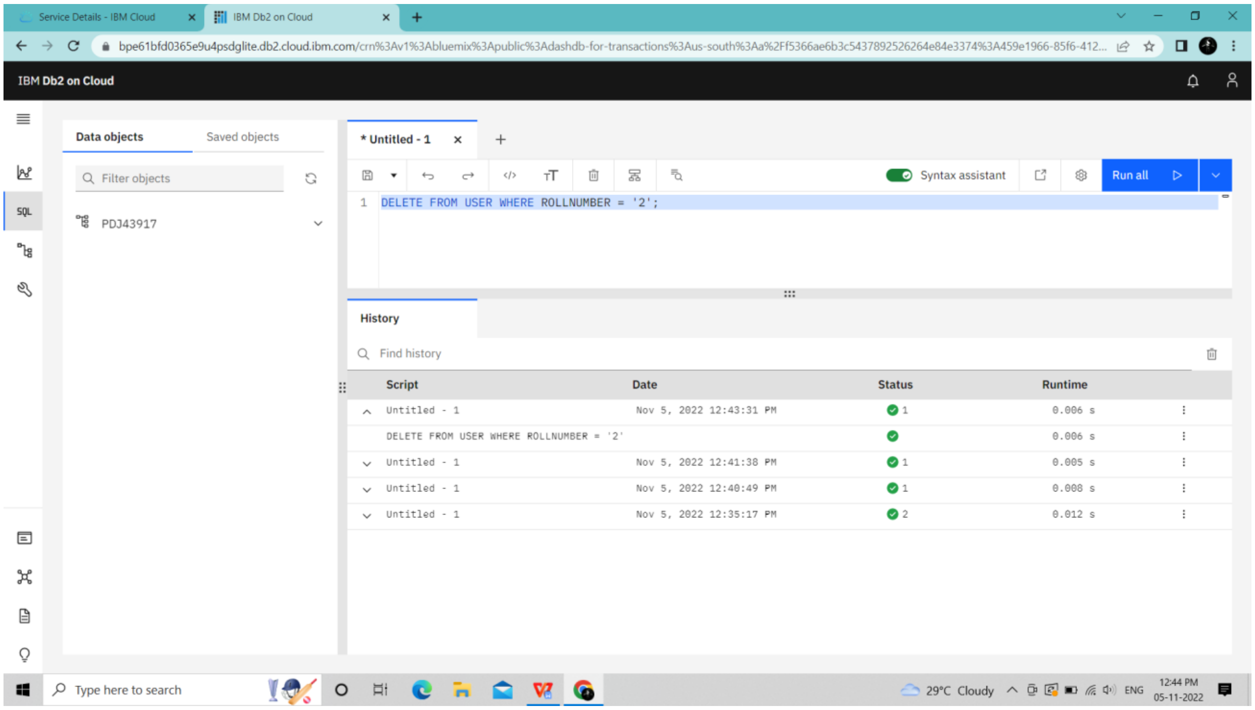
PDJ43917.USER

ROLLNUMBER	USERNAME	EMAIL	PASSWORD
1	Vimala	vimala18@gmail.com	Vim18@
2	Srimathi	srimathii12@gmail.com	sri12@

Service Details - IBM Cloud
IBM Db2 on Cloud
bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2Ff5366ae6b3c5437892526264e84e3374%3A459e1966-85f6-412...
IBM Db2 on Cloud
Load Data
Load History
Tables
Views
Indexes
Aliases
MQTs
Sequences
Application objects
Back
Export to CSV
Type here to search
31°C Cloudy
ENG
12:42 PM
05-11-2022

Thus, for ROLL NUMBER 1 the PASSWORD has been updated from "vimala11@" to "Vim18@".

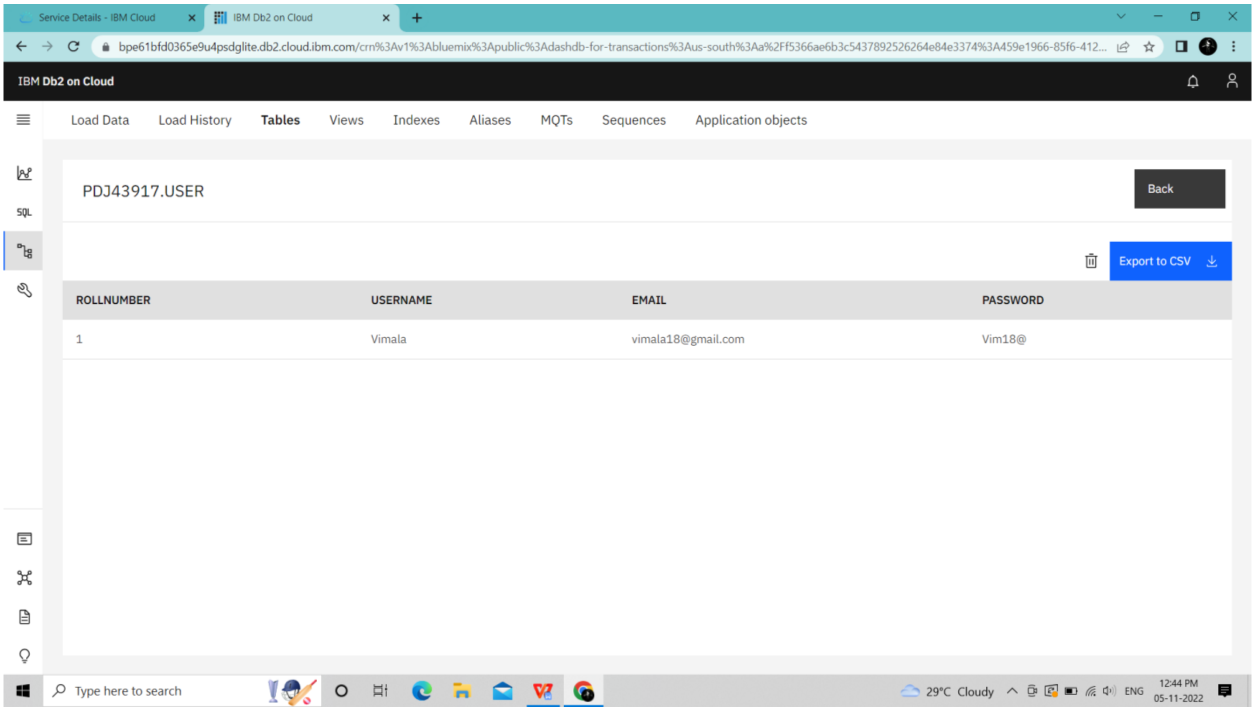
DELETE TABLE :



```
DELETE FROM USER WHERE ROLLNUMBER = '2';
```

History

Script	Date	Status	Runtime
Untitled - 1	Nov 5, 2022 12:43:31 PM	✓ 1	0.006 s
DELETE FROM USER WHERE ROLLNUMBER = '2'		✓	0.006 s
Untitled - 1	Nov 5, 2022 12:41:38 PM	✓ 1	0.005 s
Untitled - 1	Nov 5, 2022 12:40:49 PM	✓ 1	0.008 s
Untitled - 1	Nov 5, 2022 12:35:17 PM	✓ 2	0.012 s



PDJ43917.USER

ROLLNUMBER	USERNAME	EMAIL	PASSWORD
1	Vimala	vimala18@gmail.com	Vim18@

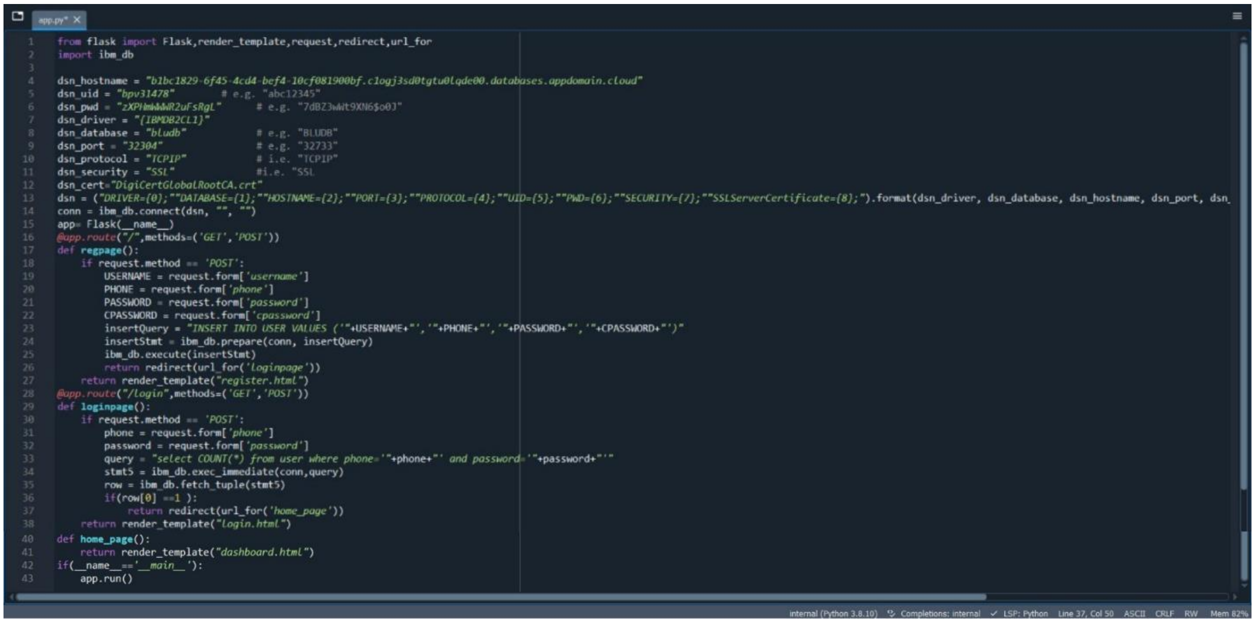
Thus ROLLNUMBER 2 has been deleted.

3. CONNECT PYTHON CODE TO DB2.

*** NOTE:-** Question 4 Contains Question 3 Answer

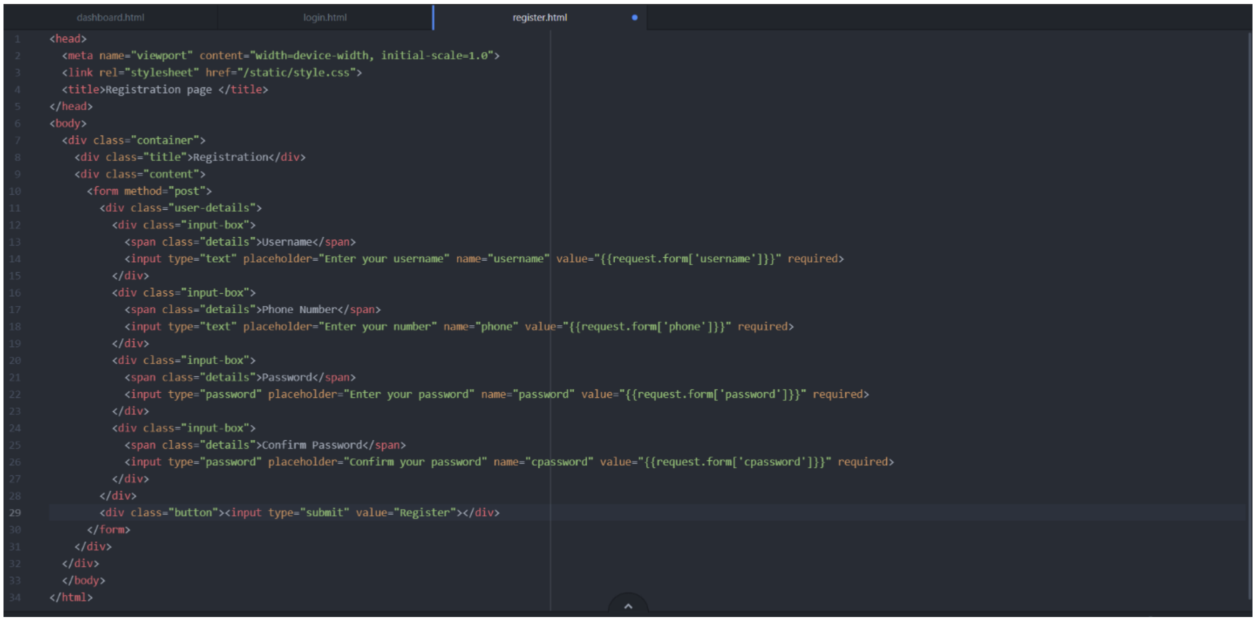
4. CREATE A FLASK APP WITH REGISTRATION PAGE, LOGIN PAGE AND WELCOME PAGE. BY DEFAULT, LOAD THE REGISTRATION PAGE ONCE THE USER ENTERS ALL THE FIELDS STORE THE DATA IN DATABASE AND NAVIGATE TO LOGIN PAGE AUTHENTICATE USER USERNAME AND PASSWORD. IF THE USER IS VALID SHOW THE WELCOME PAGE

App.py



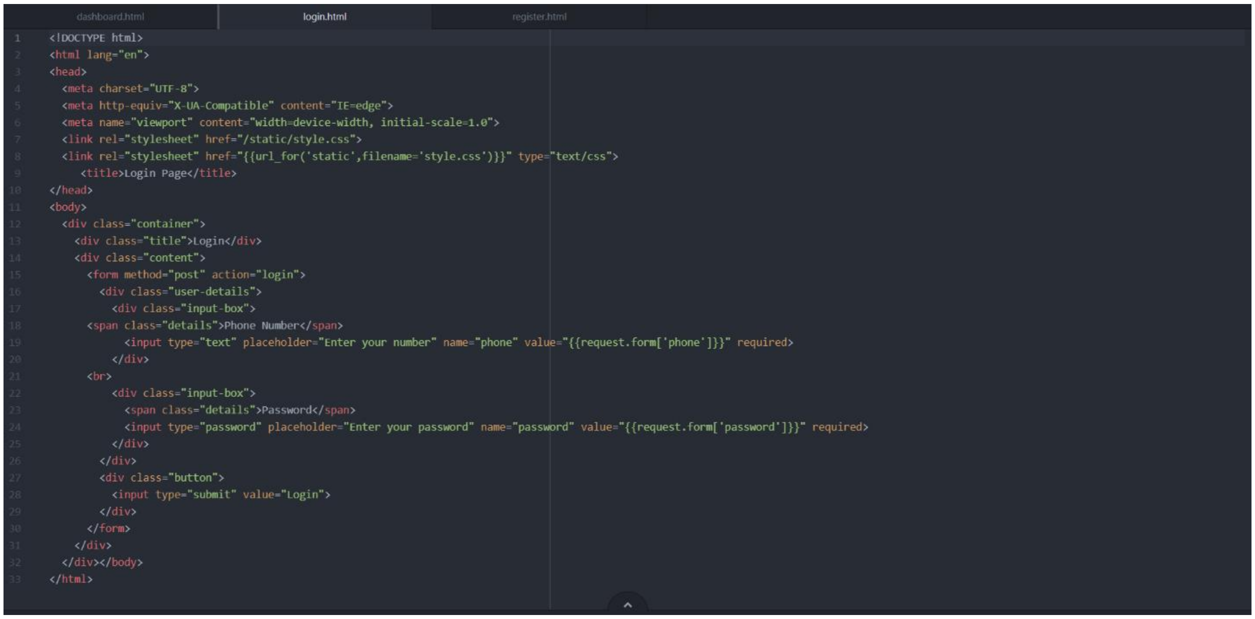
```python
from flask import Flask,render_template,request,redirect,url_for
import ibm_db

dsn_hostname = "b1bc1829-6f45-4cd4-bef4-10cf081900bf.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud"
dsn_uid = "bpv31478"        # e.g. "abc12345"
dsn_pwd = "zXPHmWWWR2uFsRgL"      # e.g. "7dBZ3wWt9XN6$o0J"
dsn_driver = "{IBMDB2CL1}"
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



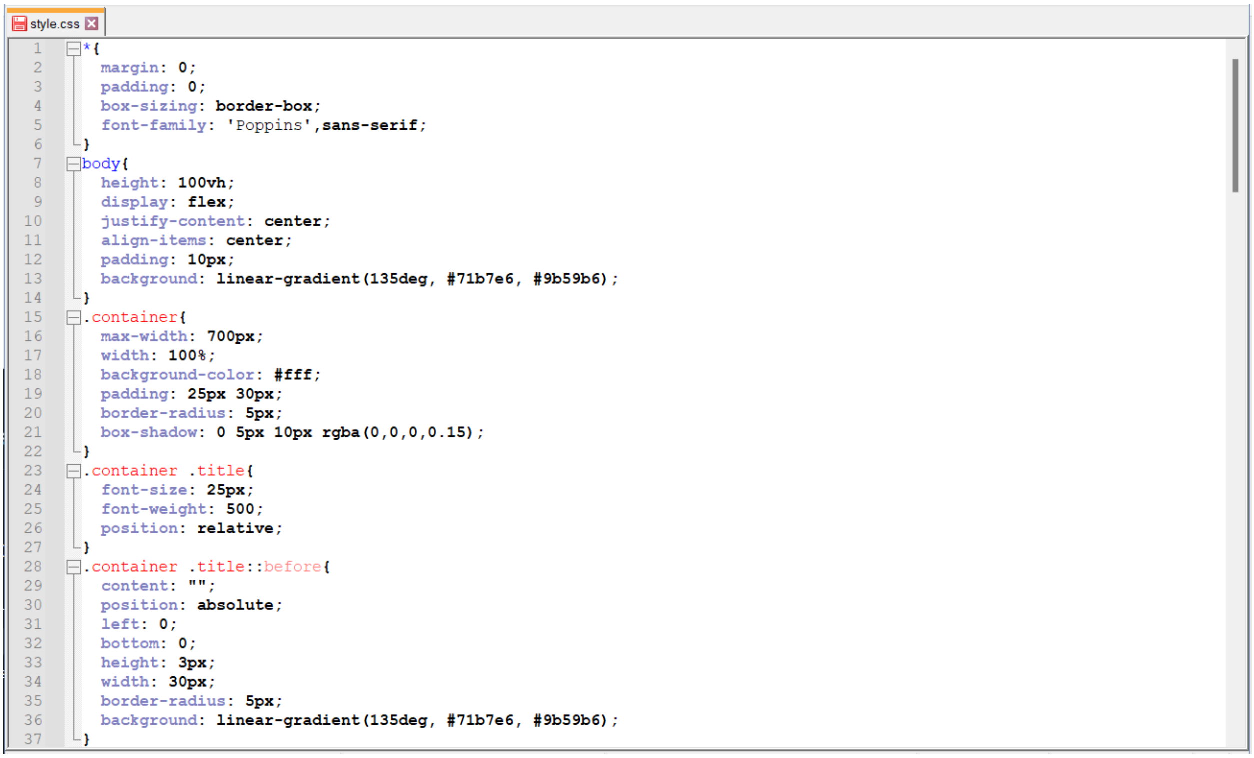
```html
<head>
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="stylesheet" href="/static/style.css">
  <title>Registration page </title>
</head>
<body>
  <div class="container">
    <div class="title">Registration</div>
    <div class="content">
      <form method="post">
        <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



```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>
```

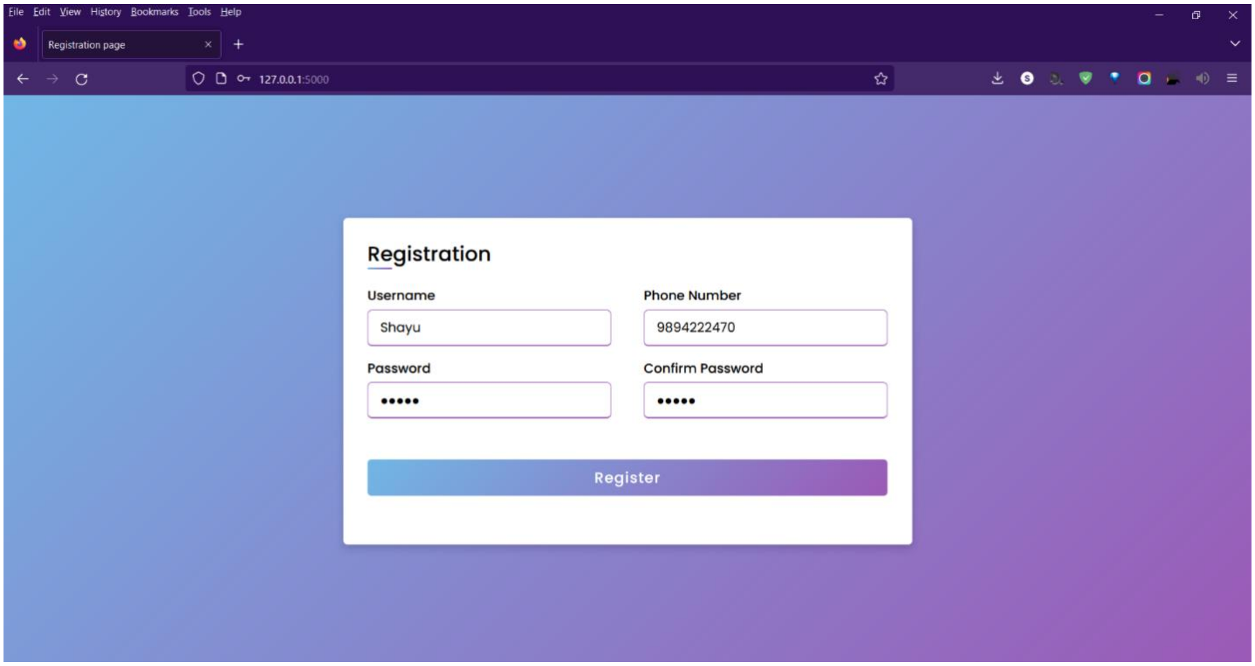
Style.css



```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:-



Registration

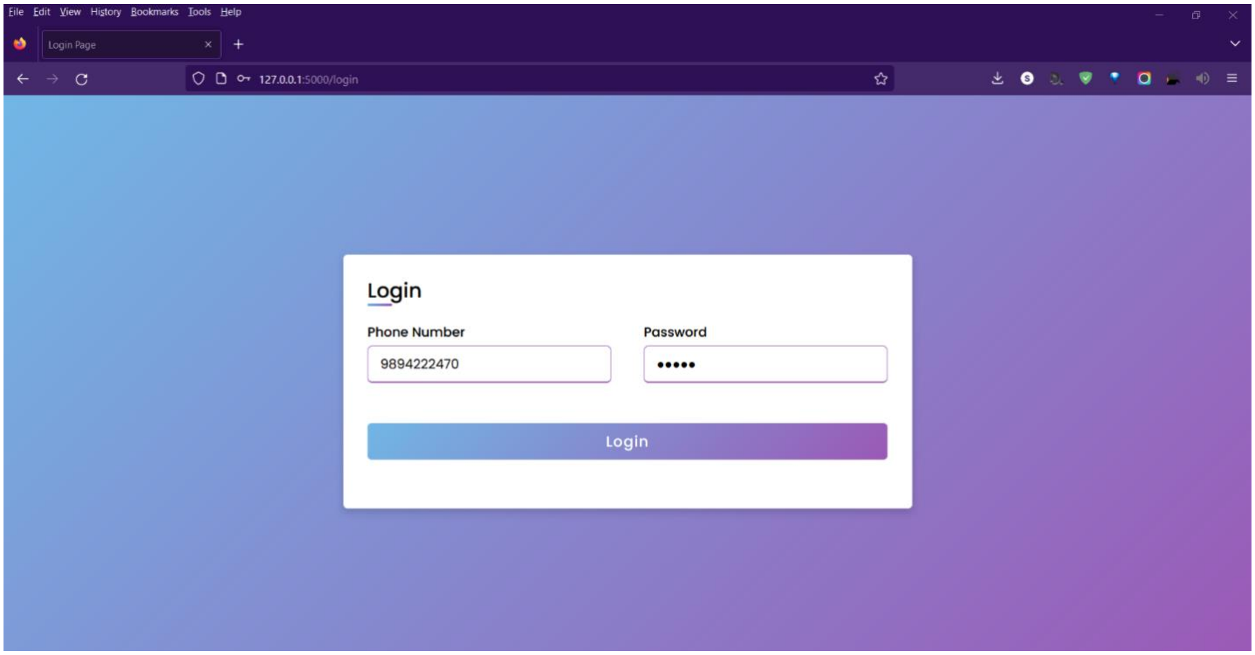
Username: Shayu

Phone Number: 9894222470

Password: •••••

Confirm Password: •••••

Login Page:-

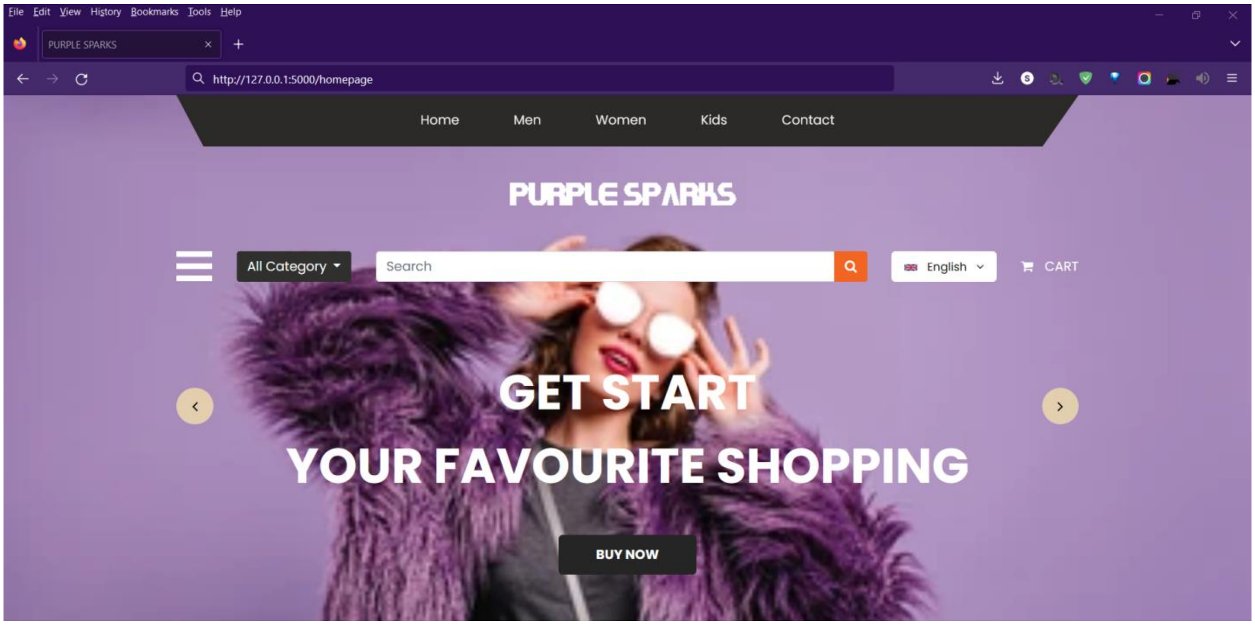


Login

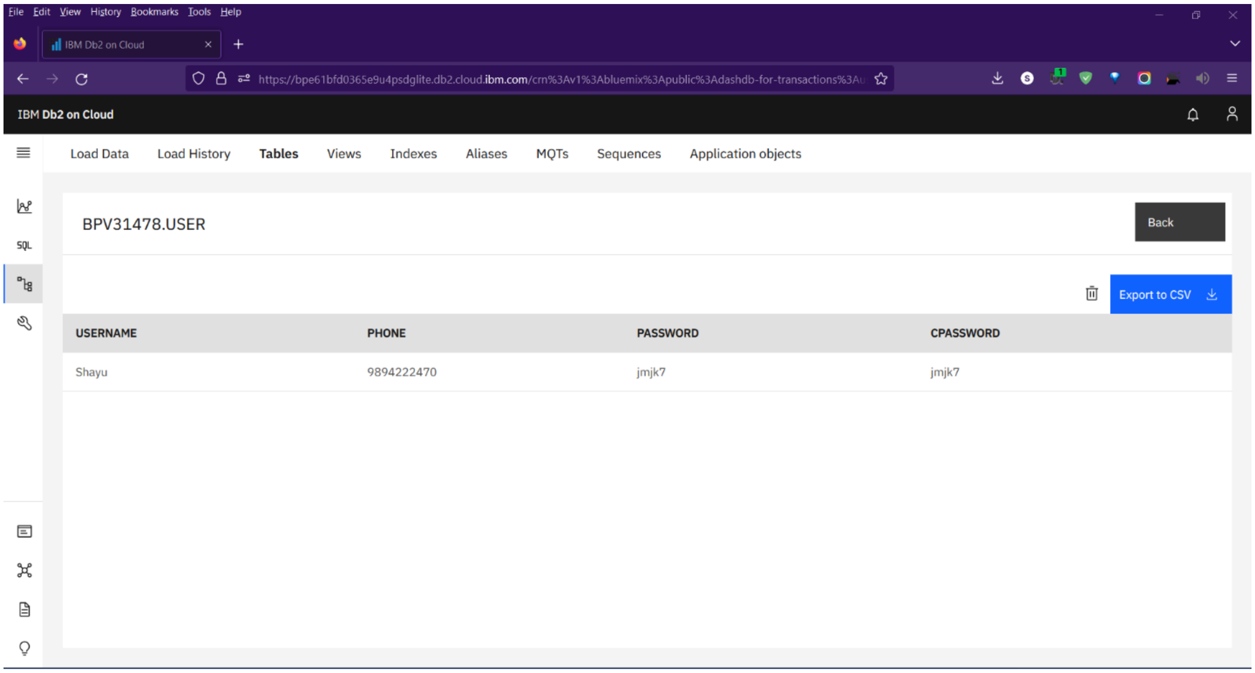
Phone Number: 9894222470

Password: •••••

Welcome page:-



Database Table :-


File Edit View History Bookmarks Tools Help
IBM Db2 on Cloud
https://bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3A
IBM Db2 on Cloud
Load Data
Load History
Tables
Views
Indexes
Aliases
MQTs
Sequences
Application objects
SQL
Back
Export to CSV

BPV31478.USER

USERNAME	PHONE	PASSWORD	CPASSWORD
Shayu	9894222470	jmjk7	jmjk7