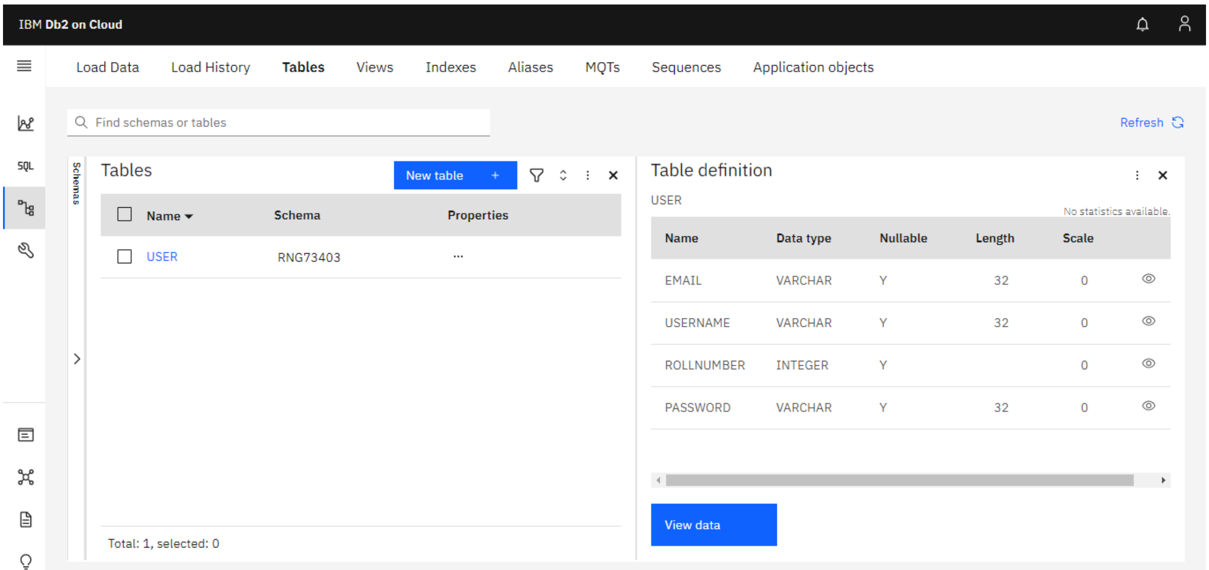
ASSIGNMENT 2

NAME: D. SINDHU
REGISTER NUMBER: 311519104056
PROJECT TOPIC: CUSTOMER CARE REGISTRY
COLLEGE NAME: MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE
TEAM NUMBER: PNT2022TMID27825

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



Name	Schema	Properties
USER	RNG73403	...

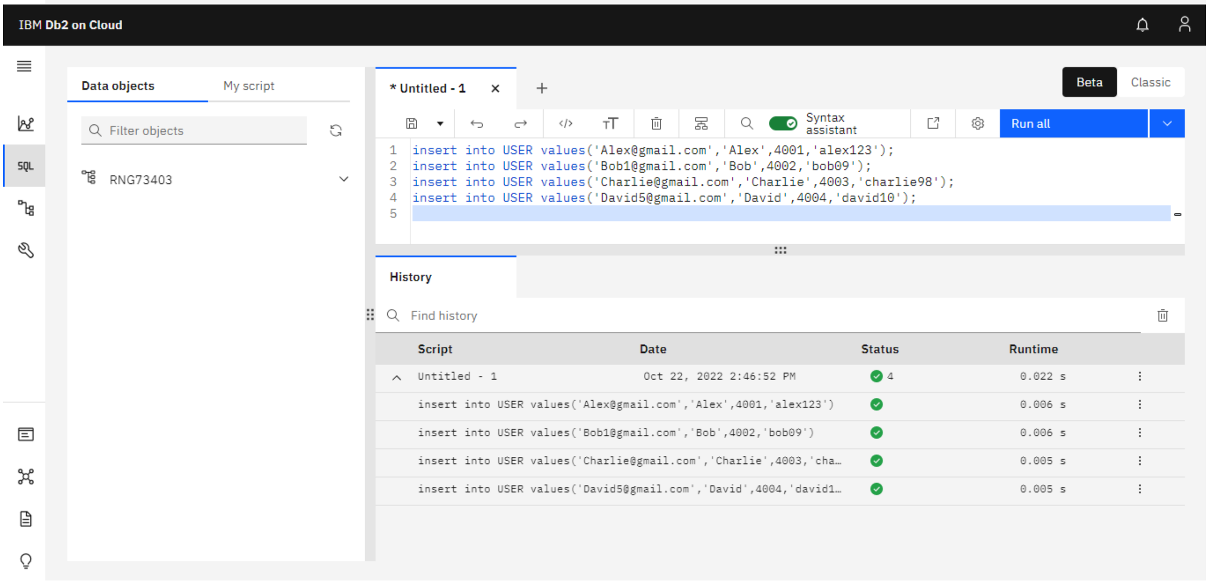
Total: 1, selected: 0

Table definition

USER

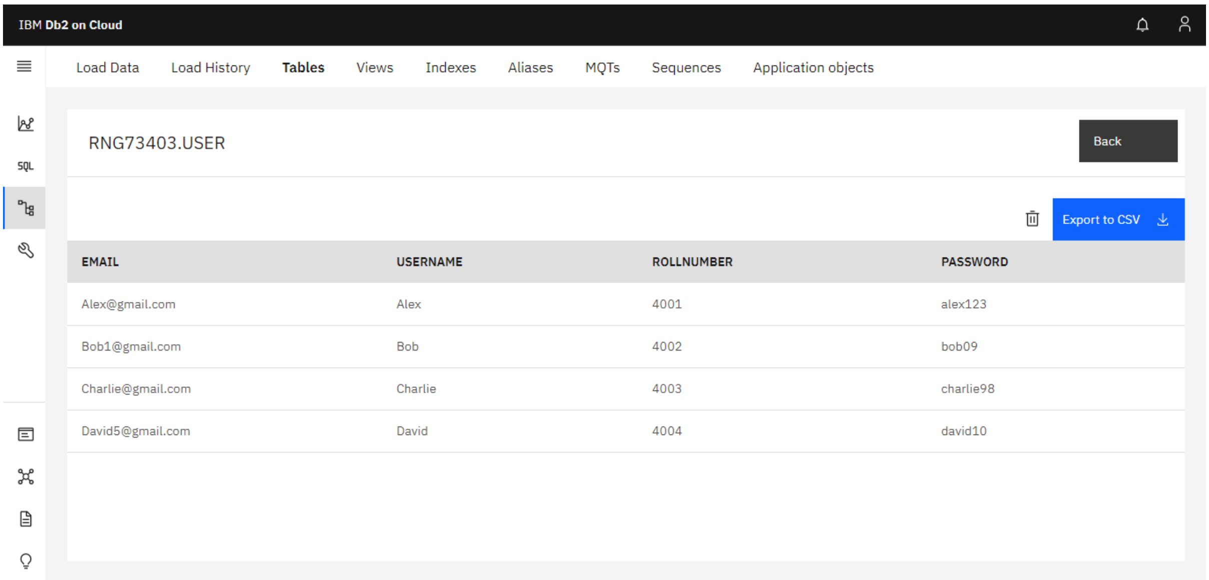
No statistics available.

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



```
insert into USER values('Alex@gmail.com','Alex',4001,'alex123');
insert into USER values('Bob1@gmail.com','Bob',4002,'bob09');
insert into USER values('Charlie@gmail.com','Charlie',4003,'charlie98');
insert into USER values('David5@gmail.com','David',4004,'david10');
```

Script	Date	Status	Runtime
Untitled - 1	Oct 22, 2022 2:46:52 PM	✓ 4	0.022 s
insert into USER values('Alex@gmail.com','Alex',4001,'alex123')		✓	0.006 s
insert into USER values('Bob1@gmail.com','Bob',4002,'bob09')		✓	0.006 s
insert into USER values('Charlie@gmail.com','Charlie',4003,'cha…		✓	0.005 s
insert into USER values('David5@gmail.com','David',4004,'david1…		✓	0.005 s



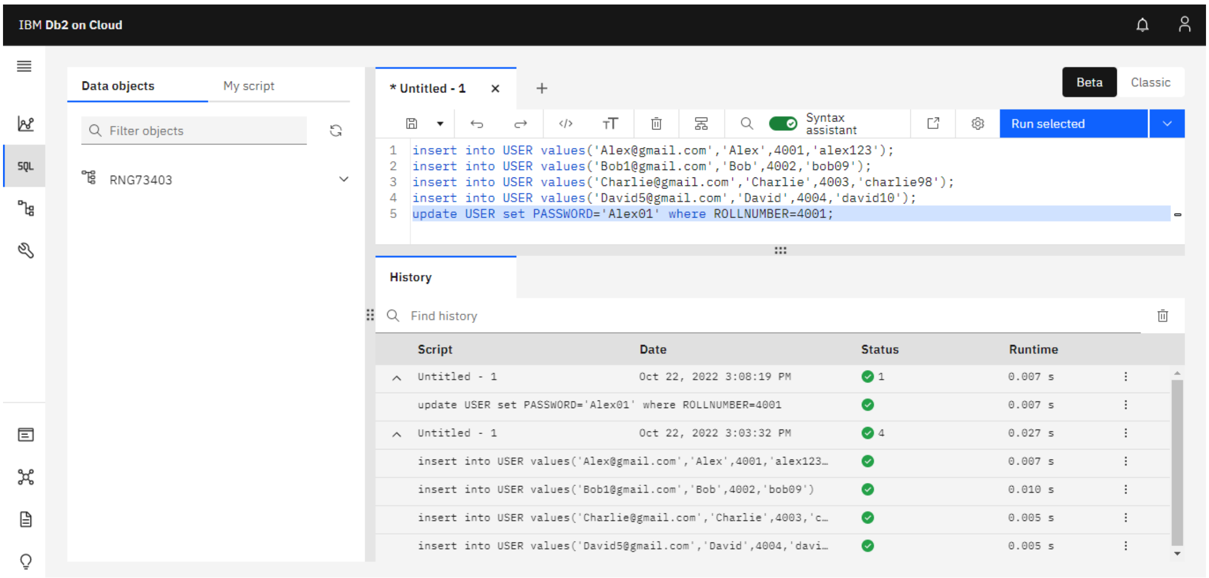
RNG73403.USER

EMAIL	USERNAME	ROLLNUMBER	PASSWORD
Alex@gmail.com	Alex	4001	alex123
Bob1@gmail.com	Bob	4002	bob09
Charlie@gmail.com	Charlie	4003	charlie98
David5@gmail.com	David	4004	david10

2. Perform UPDATE, DELETE queries with user table

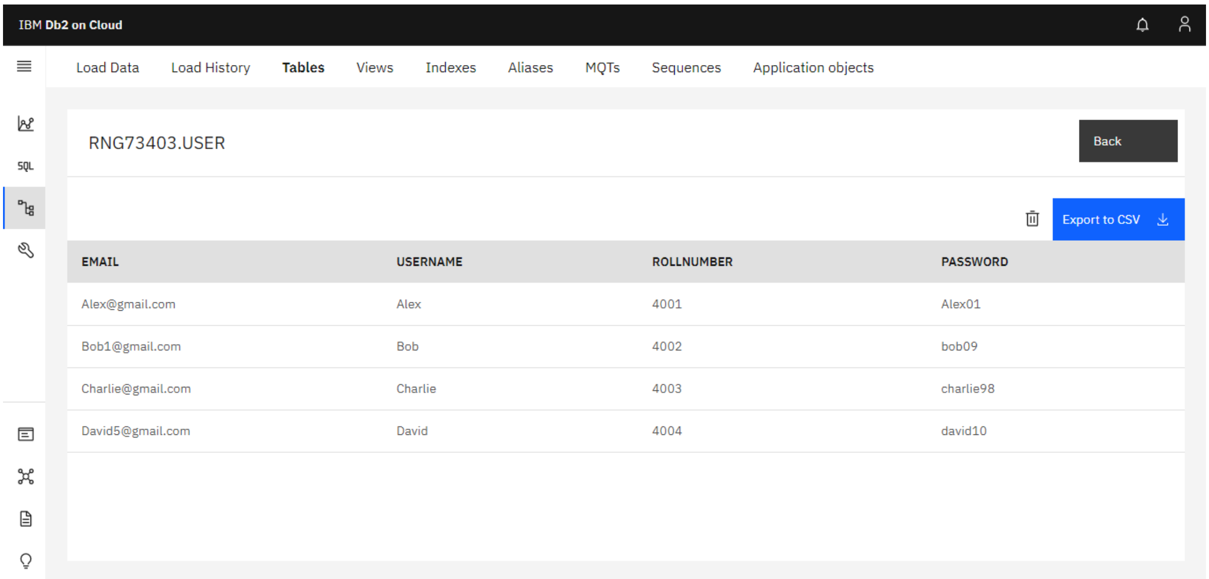
UPDATE:

QUERY: update USER set PASSWORD=’Alex01’ where ROLLNUMBER=4001;



```
insert into USER values('Alex@gmail.com','Alex',4001,'alex123');
insert into USER values('Bob1@gmail.com','Bob',4002,'bob09');
insert into USER values('Charlie@gmail.com','Charlie',4003,'charlie98');
insert into USER values('David5@gmail.com','David',4004,'david10');
update USER set PASSWORD='Alex01' where ROLLNUMBER=4001;
```

Script	Date	Status	Runtime
Untitled - 1	Oct 22, 2022 3:08:19 PM	✓ 1	0.007 s
update USER set PASSWORD='Alex01' where ROLLNUMBER=4001		✓	0.007 s
Untitled - 1	Oct 22, 2022 3:03:32 PM	✓ 4	0.027 s
insert into USER values('Alex@gmail.com','Alex',4001,'alex123…		✓	0.007 s
insert into USER values('Bob1@gmail.com','Bob',4002,'bob09')		✓	0.010 s
insert into USER values('Charlie@gmail.com','Charlie',4003,'c…		✓	0.005 s
insert into USER values('David5@gmail.com','David',4004,'davi…		✓	0.005 s

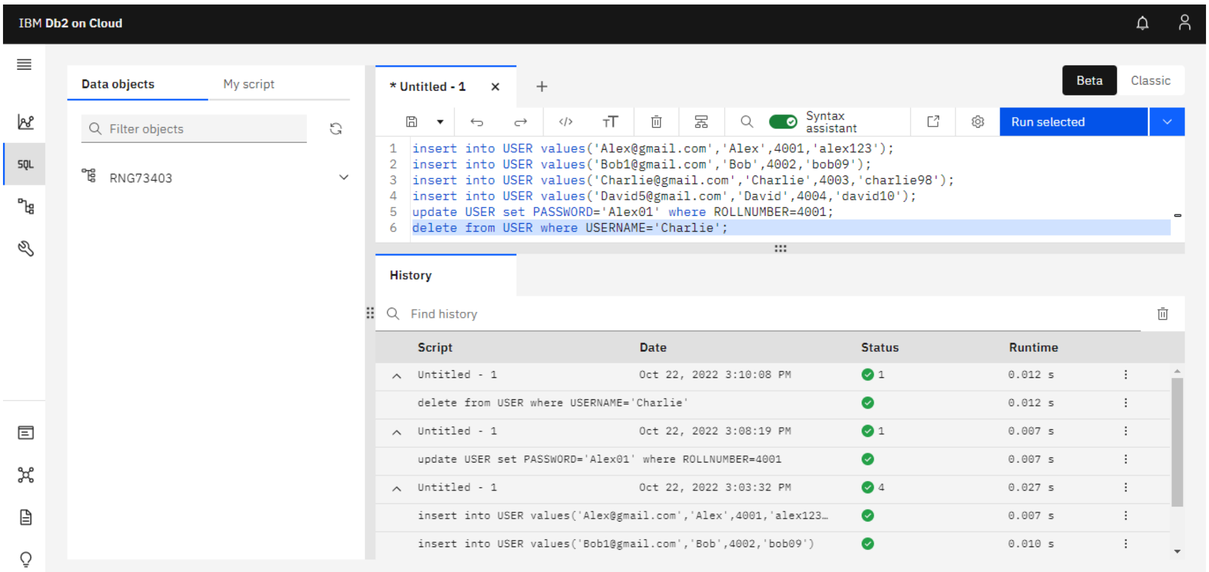


RNG73403.USER

EMAIL	USERNAME	ROLLNUMBER	PASSWORD
Alex@gmail.com	Alex	4001	Alex01
Bob1@gmail.com	Bob	4002	bob09
Charlie@gmail.com	Charlie	4003	charlie98
David5@gmail.com	David	4004	david10

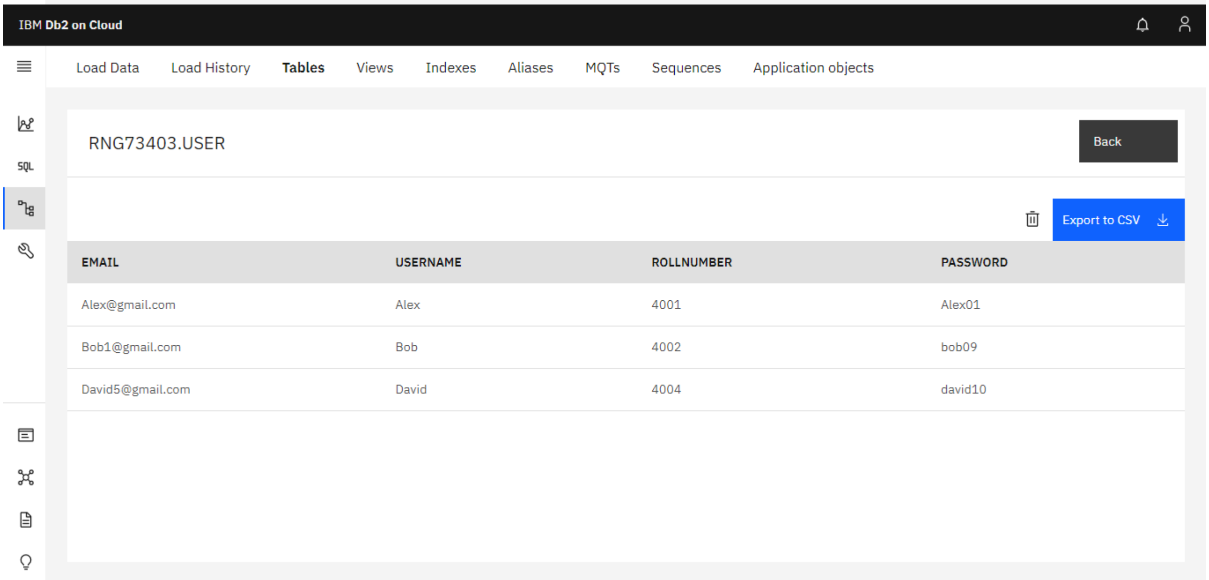
DELETE:

QUERY: delete from USER where USERNAME=’charlie’;



```
insert into USER values('Alex@gmail.com','Alex',4001,'alex123');
insert into USER values('Bob1@gmail.com','Bob',4002,'bob09');
insert into USER values('Charlie@gmail.com','Charlie',4003,'charlie98');
insert into USER values('David5@gmail.com','David',4004,'david10');
update USER set PASSWORD='Alex01' where ROLLNUMBER=4001;
delete from USER where USERNAME='Charlie';
```

Script	Date	Status	Runtime
Untitled - 1	Oct 22, 2022 3:10:08 PM	✓ 1	0.012 s
delete from USER where USERNAME='Charlie'		✓	0.012 s
Untitled - 1	Oct 22, 2022 3:08:19 PM	✓ 1	0.007 s
update USER set PASSWORD='Alex01' where ROLLNUMBER=4001		✓	0.007 s
Untitled - 1	Oct 22, 2022 3:03:32 PM	✓ 4	0.027 s
insert into USER values('Alex@gmail.com','Alex',4001,'alex123…		✓	0.007 s
insert into USER values('Bob1@gmail.com','Bob',4002,'bob09')		✓	0.010 s



RNG73403.USER

EMAIL	USERNAME	ROLLNUMBER	PASSWORD
Alex@gmail.com	Alex	4001	Alex01
Bob1@gmail.com	Bob	4002	bob09
David5@gmail.com	David	4004	david10

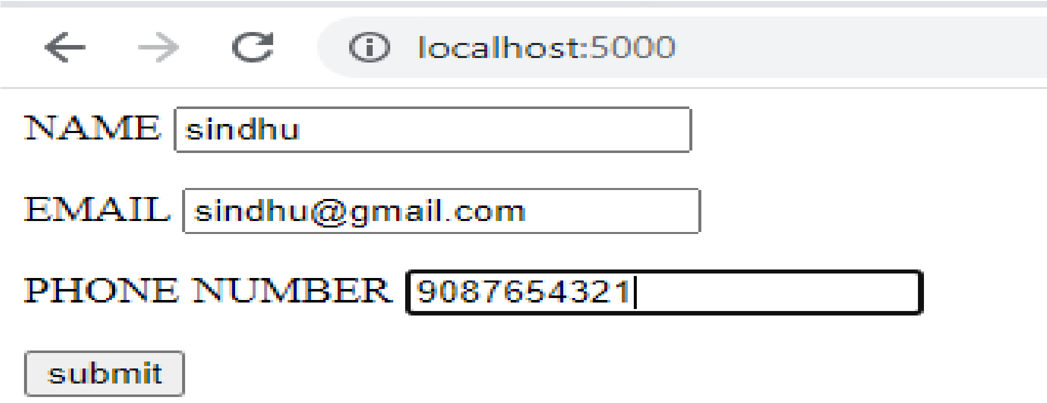
3. Connect python code to DB2

PYTHON FLASK CODE:

```
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.connext("DATABASE=bludb;HOSTNAME=fbd88901-ebdb-
4a4f-a32e-
9822b9fb237b.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32731
;Security=SSL;
SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=rng73403;PWD=PXxh
paVaRcxT6Qu0;")
@app.route('/')
def home():
    return render_template(register.html)
@app.route('/register',methods=['GET','POST'])
def register():
    global userid
    msg=" "
    if request.method=='POST':
        name=request.form['name']
        email=request.form['email']
        mobile=request.form['mobilenumber']
        insert_sql="INSERT INTO REGISTER values(?,?,?)"
        prep_stmt=ibm_db.prepare(conn,insert_sql)
        ibm_db.bind_param(prep_stmt,1,name)
        ibm_db.bind_param(prep_stmt,2,mobile)
        ibm_db.bind_param(prep_stmt,3,email)
        ibm_db.execute(prep_stmt)
        return render_template('login.html',msg=msg)
    else:
        msg='REGISTRATION UNSUCCESSFUL'
        return render_template('register.html',msg=msg)
    @app.route('/login',methods=['GET','POST'])
    def login():
        msg=" "
        if request.method=='POST':
            username=request.form['username']
            pswd=request.form['pswd']
            sql="SELECT * FROM REGISTER WHERE USERNAME=? AND
PASSWORD=?"
```

```
        stmt=ibm_db.prepare(conn,sql)
        ibm_db.bind_param(stmt,1,username)
        ibm_db.bind_param(stmt,2,pswd)
        ibm_db.execute(stmt)
        acc=ibm_db.fetch_assoc(stmt)
        if acc:
            session['loggedin']=True
            msg="LOGIN SUCCESFULLY! WELCOME"
            return render_template('welcome.html')
        else:
            msg="PLEASE ENTER VALID USERNAME/PASSWORD"
            return redirect(url_for('login',msg=msg))
if __name__=='__main__':
    app.run(debug=True)
```

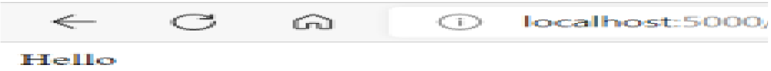
OUTPUT:



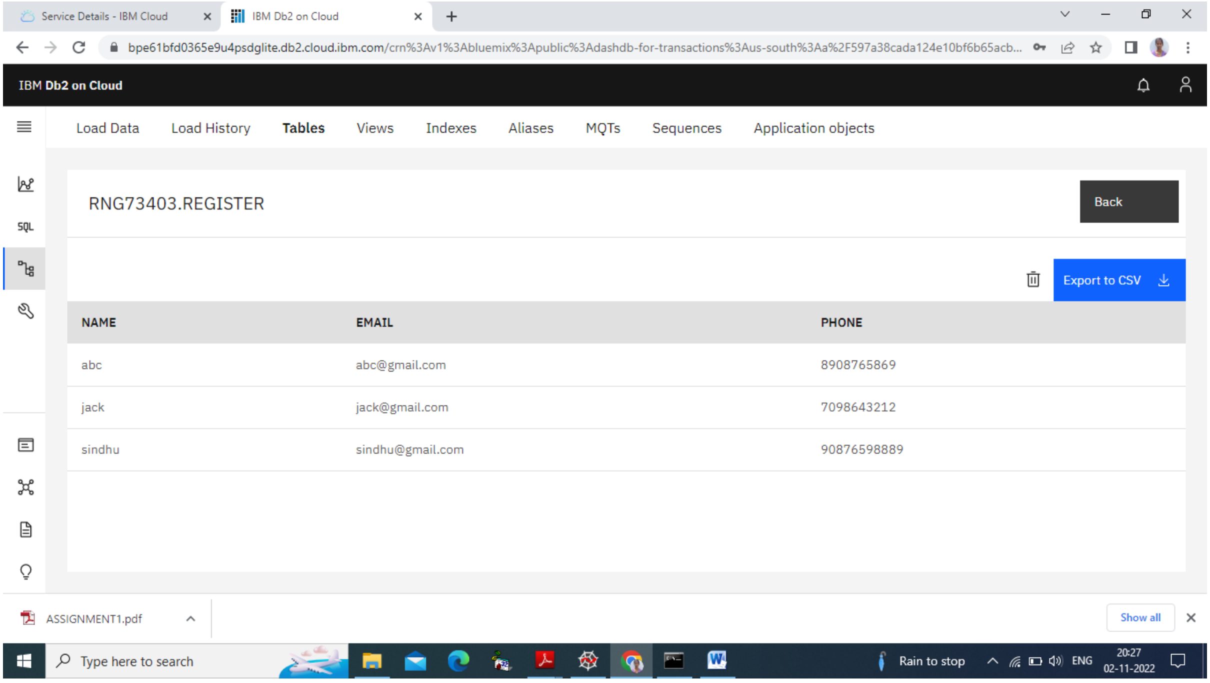
NAME sindhu

EMAIL sindhu@gmail.com

PHONE NUMBER 9087654321



Hello



RNG73403.REGISTER

NAME	EMAIL	PHONE
abc	abc@gmail.com	8908765869
jack	jack@gmail.com	7098643212
sindhu	sindhu@gmail.com	90876598889

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 data in database and navigate to login page, authenticate username and password. If the user is valid, show the welcome page

FLASK CODE:

```
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.connext("DATABASE=bludb;HOSTNAME=fbd88901-ebdb-
4a4f-a32e-
9822b9fb237b.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32731
;Security=SSL;
SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=rng73403;PWD=PXxh
paVaRcxT6Qu0;")
@app.route('/')
def home():
    return render_template(register.html)
@app.route('/register',methods=['GET','POST'])
def register():
    global userid
    msg=" "
    if request.method=='POST':
        name=request.form['name']
        email=request.form['email']
        mobile=request.form['mobilenumber']
        insert_sql="INSERT INTO REGISTER values(?,?,?)"
        prep_stmt=ibm_db.prepare(conn,insert_sql)
        ibm_db.bind_param(prep_stmt,1,name)
        ibm_db.bind_param(prep_stmt,2,mobile)
        ibm_db.bind_param(prep_stmt,3,email)
        ibm_db.execute(prep_stmt)
        return render_template('login.html',msg=msg)
    else:
        msg='REGISTRATION UNSUCCESSFUL'
        return render_template('register.html',msg=msg)
    @app.route('/login',methods=['GET','POST'])
    def login():
        msg=" "
        if request.method=='POST':
            username=request.form['username']
            pswd=request.form['pswd']
            sql="SELECT * FROM REGISTER WHERE USERNAME=? AND
PASSWORD=?"
            stmt=ibm_db.prepare(conn,sql)
            ibm_db.bind_param(stmt,1,username)
            ibm_db.bind_param(stmt,2,pswd)
            ibm_db.execute(stmt)
            acc=ibm_db.fetch_assoc(stmt)
            if acc:
                session['loggedin']=True
                msg="LOGIN SUCCESFULLY! WELCOME"
                return render_template('welcome.html')
            else:
                msg="PLEASE ENTER VALID USERNAME/PASSWORD"
                return redirect(url_for('login',msg=msg))
if __name__=='__main__':
     app.run(debug=True)
```

register.html

```
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset="UTF-8">
<meta name="viewport" content="width=device-width,initial-scale=1">
<meta http-equiv="X-UA-Compatible" content="ie=edge">
<title>SIGN UP</title>
```

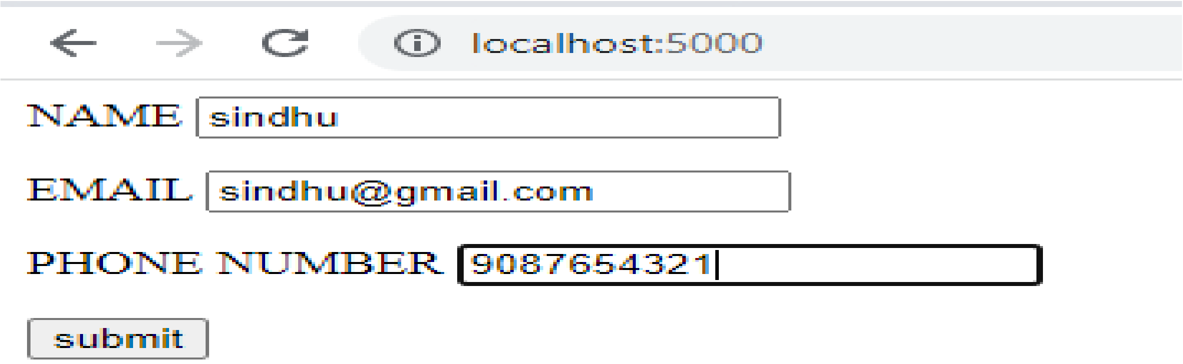
```
<style>
body,html{
height: 100%;
margin:0;
}
*{
box-sizing:border-box;
}
.bck{
background-image:url("https://images.indianexpress.com/2020/07/Rail-tunnel.jpg");
height: 100%;
background-position: center;
background-repeat: no-repeat;
background-size: cover;
filter: blur(12px);
-webkit-filter: blur(12px);
}
.bckbox {
background-color: rgb(0,0,0);
background-color: rgba(0,0,0, 0.09);
color: white;
font-weight: bolder;
border: 1px solid #f1f1f1;
position: absolute;
top: 50%;
left: 50%;
transform: translate(-50%, -50%);
z-index: 2;
width: 60%;
height:80%;
padding: 35px;
text-align: left;
font-size:25px;
}
.bcktext{
position: absolute;
top:20%;
left:20%;
}
.btn{
background-color:#ffffcc;
height:10%;
border-radius:20px;
left:70%;
width:90%;
font-weight:bold;
font-size:15px;
}
.acbtn{
position:absolute;
bottom:8px;
right:16px;
}
h3{
color:white;}
</style>
</head>
<body>
<div class="bck">
</div>
<div class="bckbox">
<h3><center>REGISTRATION FORM</center></h3>
<div class="bcktext">
<form class="f1" action="" method="post">
<label style="color:white;">NAME :<sup style="color:rgb(255, 10, 10)"> *
</sup></label>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbs
p;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nb
sp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&n
bsp;&nbsp;&nbsp;<input type="text" name="name" id="name" style="font-
size:18px;height:40px;" maxlength="20" onkeypress="return
isAlphaKey(event);" required><br><br>
<label style="color:white;">EMAIL-ID :<sup style="color:rgb(255, 10, 10)"> *
</sup></label>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbs
p;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nb
sp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="email"
name="mail" id="email" style="font-size:18px;height:40px;"
required><br><br>
<label style="color:white;">MOBILE NUMBER :<sup style="color:rgb(255,
10, 10)"> *
</sup></label>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbs
p;&nbsp;<input type="text" name="mob" id="mob" maxlength="10"
style="font-size:18px;height:40px;" onkeypress="return isNumberKey(event);"
required><br><br>
<label style="color:white;">USERNAME :<sup style="color:rgb(255, 10,
10)"> *
```

```
</sup></label>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbs
p;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nb
sp;&nbsp;&nbsp;<input type="email" name="user" id="user" style="font-
size:18px;height:40px;" required><br><br>
<label style="color:white;">PASSWORD :<sup style="color:rgb(255, 10,
10)"> *
</sup></label>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbs
p;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nb
sp;&nbsp;&nbsp;&nbsp;<input type="password" name="pwd" id="pwd"
maxlength="8" style="font-size:18px;height:40px;" required><br><br>
</div>
<div class="acbtn">
<button class="btn" type="submit" id="btn1"
onclick="myFunction()">CREATE ACCOUNT</button>
</div>
</div>
<script>
function isNumberKey(evt) {
var charCode = (evt.which) ? evt.which : evt.keyCode
return !(charCode > 31 && (charCode < 48 || charCode > 57));
}
</script>
<script>
function isAlphaKey(evt) {
var charCode = (evt.which) ? evt.which : evt.keyCode
return (event.charCode > 64 && event.charCode < 91) || (event.charCode > 96
&& event.charCode < 123);
}
</script>
<script>
function myFunction(){
if( document.f1.name.value == "" ) {
alert( "Please provide your name!" );
document.f1.name.focus() ;
return false;
}
if( document.f1.mail.value == "" ) {
alert( "Please provide your Email!" );
document.f1.mail.focus() ;
return false;
}
if( document.f1.mob.value == "" || isNaN( document.f1.mob.value ) ) {
alert( "Please provide mobile number." );
document.f1.mob.focus() ;
return false;
}
if( document.f1.user.value == "-1" ) {
alert( "Please provide your username" );
document.f1.user.focus()
return false;
}
if( document.f1.pwd.value == "" ) {
alert( "Please provide your password" );
document.f1.pwd.focus()
return false;
}
if( document.f1.cpwd.value == "" ) {
alert( "Please provide your confirmation password" );
document.f1.cpwd.focus()
return false;
}
if( document.f1.cpwd.value != document.f1.pwd.value ) {
alert( "Password mismatch!" );
document.f1.cpwd.focus()
return false;
}
}
}
</script>
</form>
</body>
</html>
```

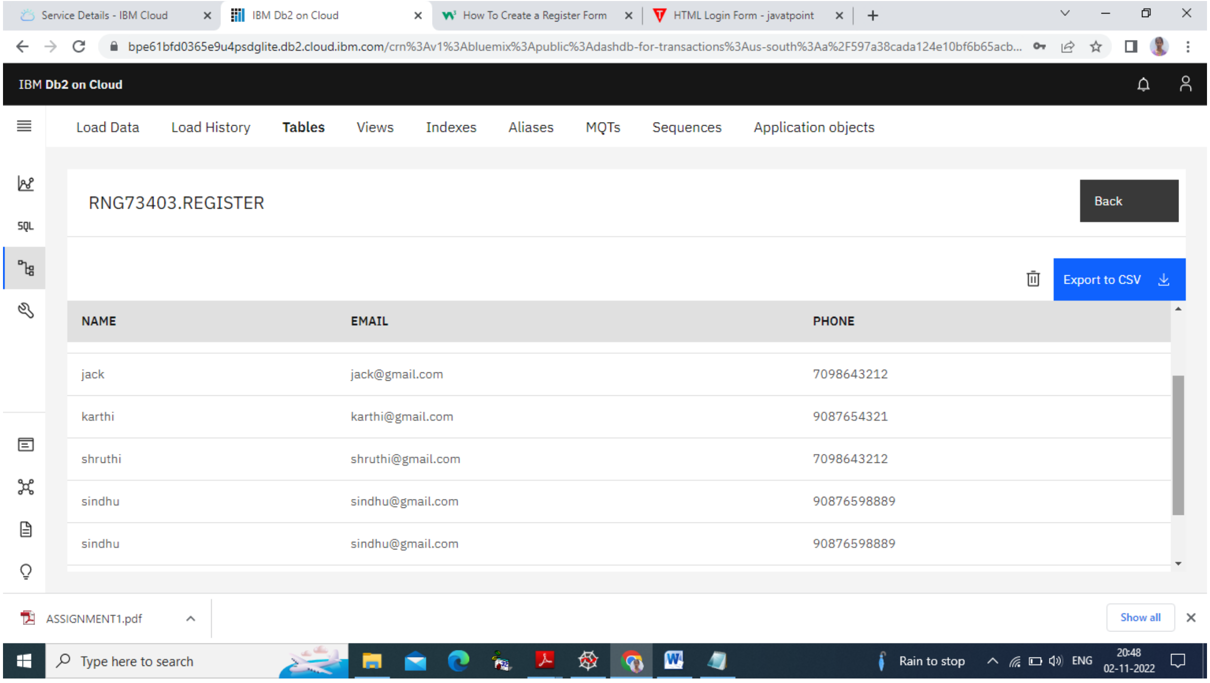
Login.html

```
<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
<title> Login Page </title>
<style>
Body {
  font-family: Calibri, Helvetica, sans-serif;
  background-color: pink;
}
button {
       background-color: #4CAF50;
       width: 100%;
        color: orange;
        padding: 15px;
        margin: 10px 0px;
        border: none;
        cursor: pointer;
         }
 form {
        border: 3px;
    }
 input[type=text], input[type=password] {
        width: 100%;
        margin: 8px 0;
        padding: 12px 20px;
        display: inline-block;
        border: 2px solid green;
        box-sizing: border-box;
    }
 button:hover {
        opacity: 0.7;
    }
  .cancelbtn {
        width: auto;
        padding: 10px 18px;
        margin: 10px 5px;
    }


 .container {
        padding: 25px;

    }
</style>
</head>
<body>
    <center> <h1> Student Login Form </h1> </center>
    <form>
        <div class="container">
            <label>Username : </label>
            <input type="text" placeholder="Enter Username" name="username"
required>
            <label>Password : </label>
            <input type="password" placeholder="Enter Password"
name="password" required>
            <button type="submit">Login</button>

        </div>
    </form>
</body>
</html>
```

OUTPUT:



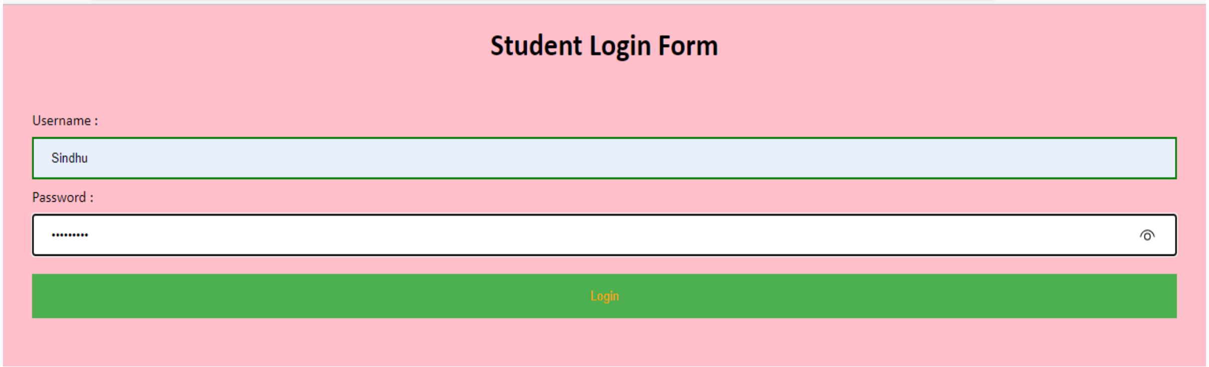
NAME	sindhu
EMAIL	sindhu@gmail.com
PHONE NUMBER	9087654321



Service Details - IBM Cloud
IBM Db2 on Cloud
How To Create a Register Form
HTML Login Form - javatpoint
bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2F597a38cada124e10bf6b65acb...
IBM Db2 on Cloud
Load Data
Load History
Tables
Views
Indexes
Aliases
MQTs
Sequences
Application objects
SQL
Back
Export to CSV
ASSIGNMENT1.pdf
Show all
Type here to search
Rain to stop
ENG
20:48
02-11-2022

RNG73403.REGISTER

NAME	EMAIL	PHONE
jack	jack@gmail.com	7098643212
karthi	karthi@gmail.com	9087654321
shruthi	shruthi@gmail.com	7098643212
sindhu	sindhu@gmail.com	90876598889
sindhu	sindhu@gmail.com	90876598889



Student Login Form

Username :

Sindhu

Password :

•••••••••