

Create IBM DB2 and connect with python

Project Name	Project - Plasma Donor App
Team ID	PNT2022TMID08196
Team Leader	Thrivikram Chetty M
Team Member 1	Vijay T
Team Member 2	Vignesh V
Team Member 3	Rajesh D

→ 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=0c77d6f2-5da9-48a9-81f8-86b520b875
18.bs2io90l08kqblod8lcg.databases.appdomain.cloud;PORT=31198;SECURITY=SSL;
SSLServerCertificate=Certificate.crt;UID=jqy91109;PWD=jKfOzK88qIqZnQQK",'',
'')

@app.route('/register',methods=['GET', 'POST'])

def register():

    msg = " "

    if request.method == 'POST':

        username = request.form['username']

        email_id = request.form['email_id']

        phone_no = request.form['phone_no']
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password = request.form['password']

query = "SELECT * FROM USER1 WHERE username=?;"

stmt = ibm_db.prepare(conn, query)

ibm_db.bind_param(stmt, 1, username)

ibm_db.execute(stmt)

account = ibm_db.fetch_assoc(stmt)

if (account):

    msg = "Account already exists!"

    return render_template('register.html', msg=msg)

# elif not re.match(r'^@+@[^@]+\.[^@]+', email_id):

#     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 USER1 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_id)

    ibm_db.bind_param(prepare_stmt, 3, phone_no)

    ibm_db.bind_param(prepare_stmt, 4, password)

    ibm_db.execute(prepare_stmt)

    account = ibm_db.fetch_assoc(stmt)

    msg = 'You have successfully Logged In!!'

    return render_template('login.html', msg=msg)

else:

    msg = 'PLEASE FILL OUT OF THE FORM'

```

```
        return render_template('register.html', msg=msg)

if __name__ == "__main__":
    app.run(debug=True)

    app.run(host='0.0.0.0')
```

→ register.html

```
<!DOCTYPE html>

<html>

<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>REGISTRATION PAGE</title>

</head>

<style>

    body {

        background-image: linear-gradient(92.7deg, rgb(59, 170, 201) 8.5%,
rgb(246, 244, 198) 90.2%);

        font-family: 'Times New Roman', Times, serif;

    }

    input:hover {

        border-color: rgb(25, 20, 20);

    }

}
```

```
button:hover {  
    background-color: dark blue;  
    border-color: black;  
}  
  
h1 {  
    font-family: 'Courier New', Courier, monospace;  
    color: darkolivegreen;  
}  
  
#qwerty {  
    margin-top: 15em;  
}  
</style>  
  
<body>  
    <center id="qwerty">  
        <H1>REGISTRATION FORM</H1>  
        <!-- -->  
        <form action="http://localhost:5000/register" method="POST">  
            <table>  
                <tr>  
                    <td><label for="text">USERNAME</label></td>  
                    <td>&nbsp;</td>  
                    <td><input type="text" placeholder="Enter Username"  
name="username" id="username"></td>  
                </tr>
```

```
<tr></tr>

<tr></tr>

<tr>

    <td><label for="text">EMAIL ID</label></td>

    <td>&nbsp;</td>

    <td><input type="text" placeholder="Enter email id"
name="email_id" id="email_id"></td>

</tr>

<tr></tr>

<tr></tr>

<tr>

    <td><label for="text">PHONE NUMBER</label></td>

    <td>&nbsp;</td>

    <td><input type="text" placeholder="Enter phone
number" name="phone_no" id="phone_no"></td>

</tr>

<tr></tr>

<tr></tr>

<tr>

    <td><label for="text">PASSWORD</label></td>

    <td>&nbsp;</td>

    <td><input type="text" placeholder="Enter password"
name="password" id="password"></td>

</tr>

<tr></tr>

<tr></tr>

</table>
```

```
<br>

<center><button onclick="asd()" type="submit">Submit</button>

</center>

</form>

</center>

</body>

<script>

    function asd() {

        var username1 = document.getElementById("username");

        var email_id = document.getElementById('email_id');

        var phone_no = document.getElementById('phone_no');

        var password = document.getElementById('password');

        if (username1.value == "" || phone_no.value == "" ||
password.value == "") {

            username.style.borderColor = "red";

        }

        else if (email_id.value == "") {

            email_id.style.borderColor = "red";

        }

        else if (phone_no.value == "") {

            phone_no.style.borderColor = "red";

        }

        else if (password.value == "") {

            password.style.borderColor = "red";

        }

    }

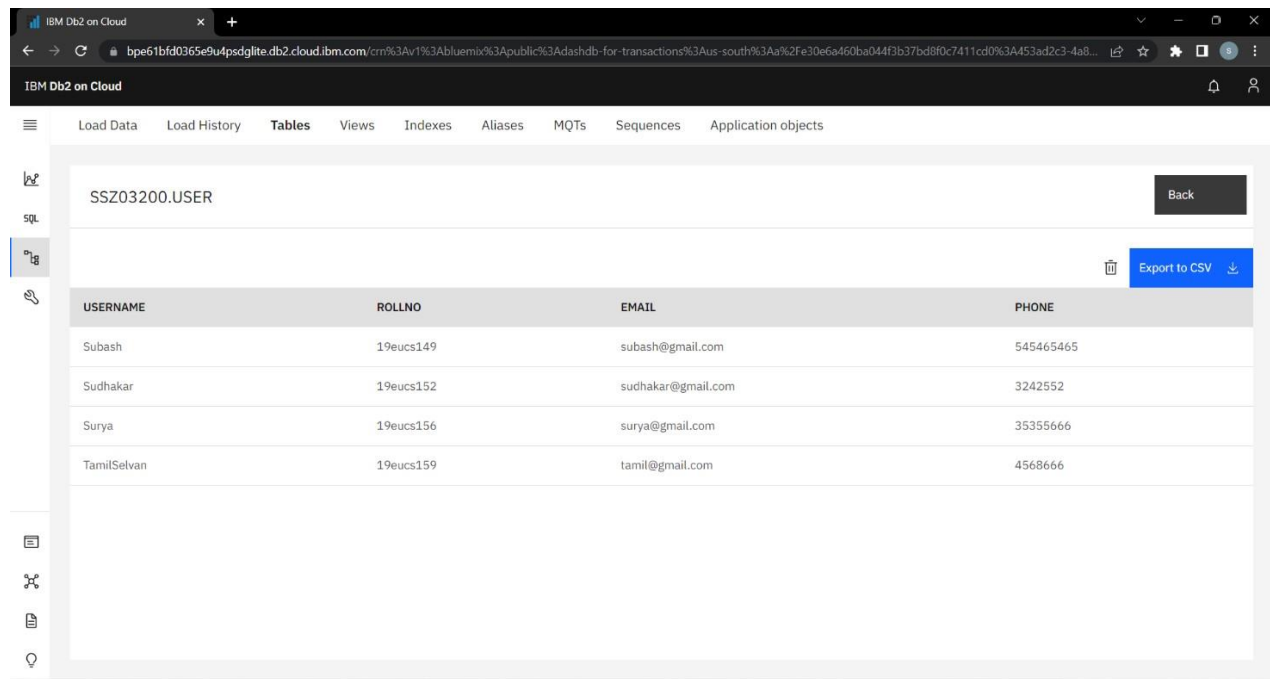
}
```

```
}

</script>

</html>
```

OUTPUT :



The screenshot shows the IBM Db2 on Cloud web interface. The browser address bar displays a long URL. The console header includes navigation tabs: Load Data, Load History, Tables, Views, Indexes, Aliases, MQTs, Sequences, and Application objects. The 'Tables' tab is selected, showing a table named 'SSZ03200.USER'. To the right of the table name are 'Back' and 'Export to CSV' buttons. The table has four columns: USERNAME, ROLLNO, EMAIL, and PHONE. It contains five rows of data. On the left side of the console, there is a vertical sidebar with icons for SQL, Table Editor, and other tools.

USERNAME	ROLLNO	EMAIL	PHONE
Subash	19eucs149	subash@gmail.com	545465465
Sudhakar	19eucs152	sudhakar@gmail.com	3242552
Surya	19eucs156	surya@gmail.com	35355666
TamilSelvan	19eucs159	tamil@gmail.com	4568666