ASSIGNMENT 2

Team ID	PNT2022TMID17803
Project Name	Plasma Donor Application
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1. Create User table with user with email, username, roll number, password.
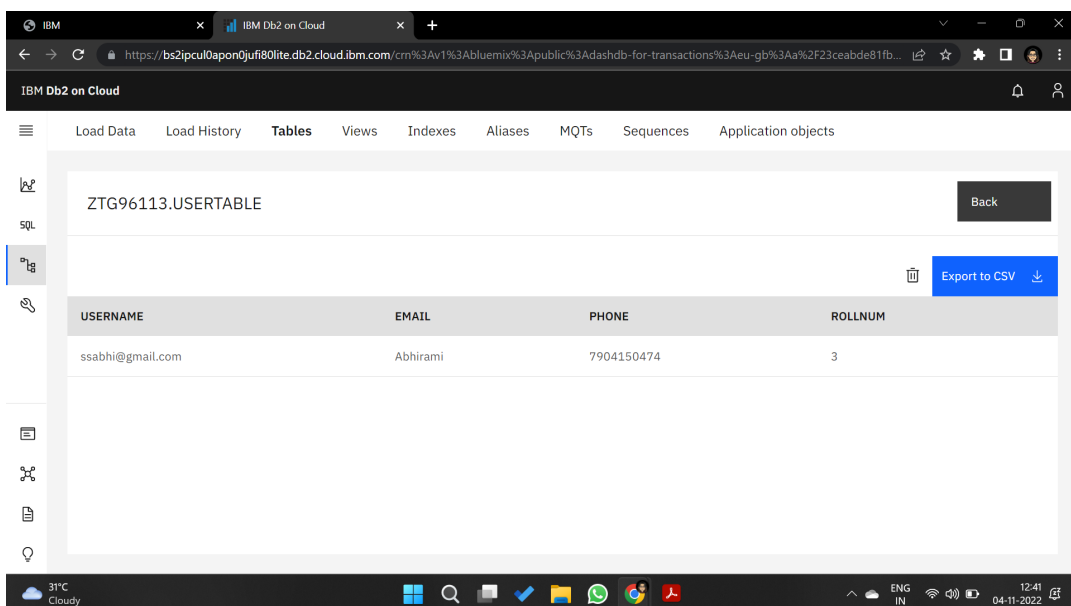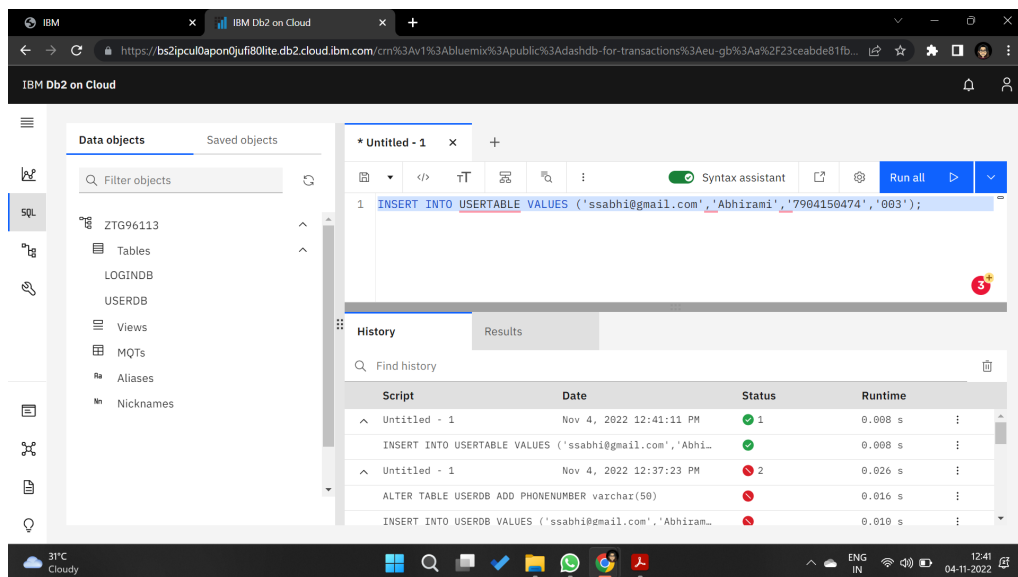
Using IBM DB2 Cloud USERTABLE is created as follows:
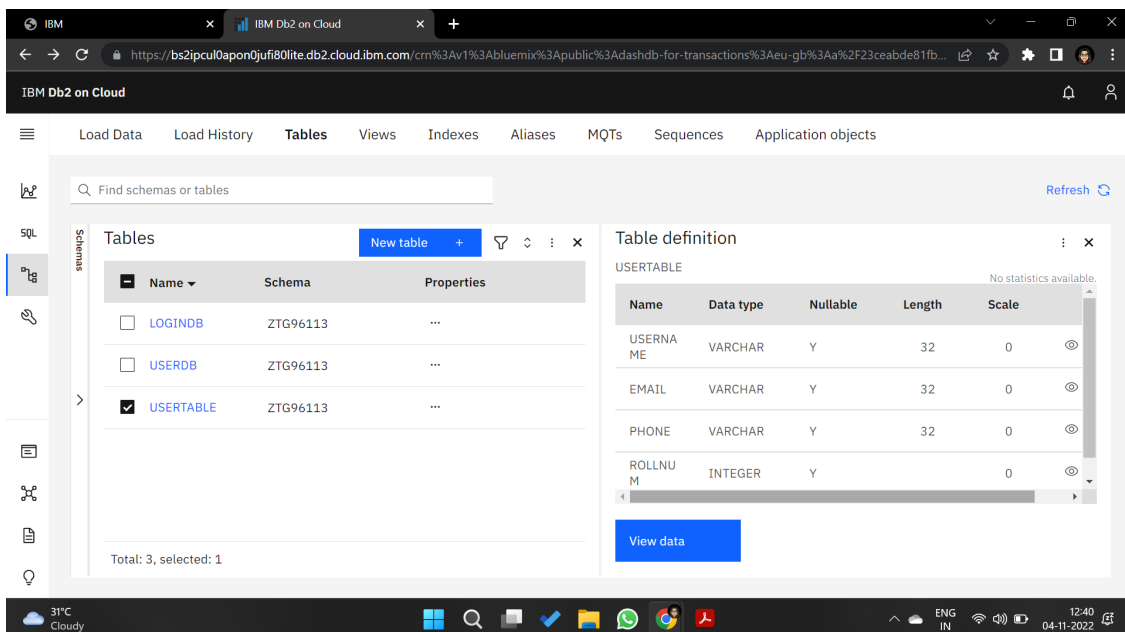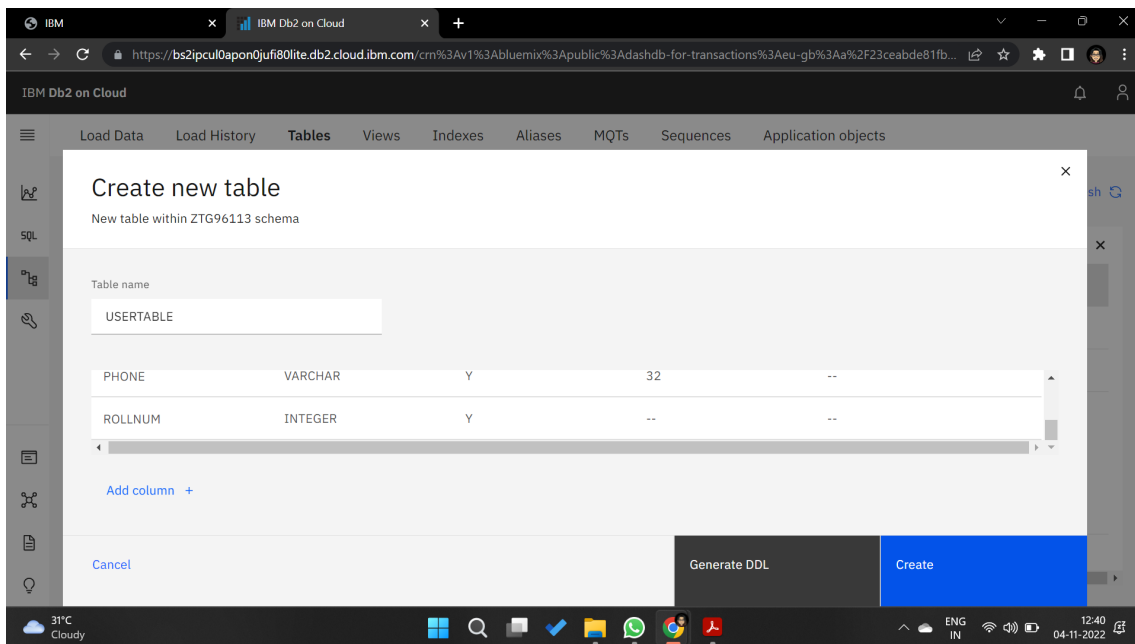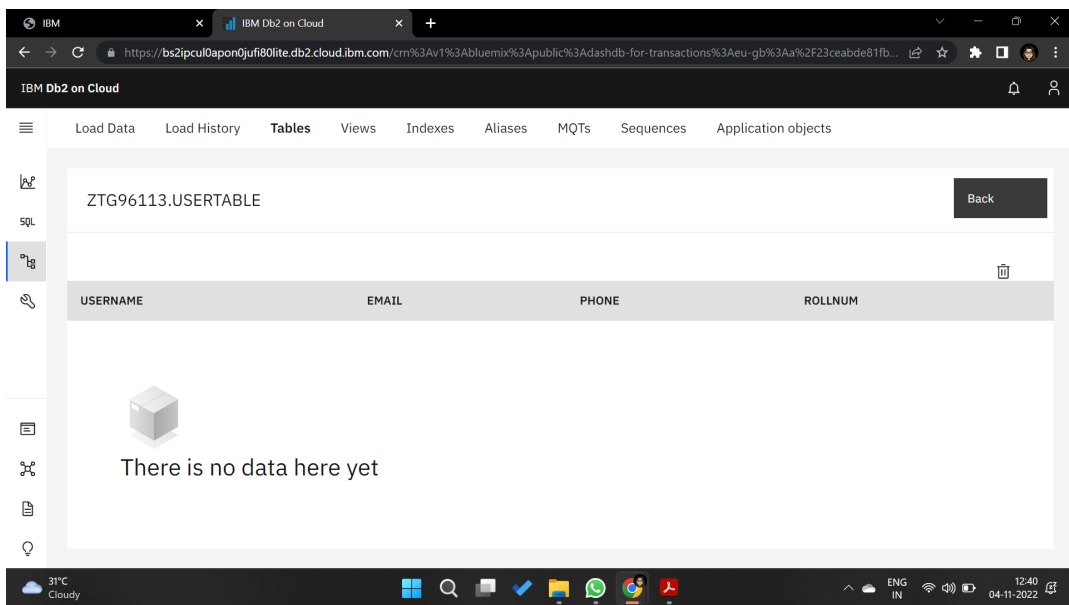
2. Perform UPDATE,DELETE Queries with user table

Inserting Values to USERTABLE

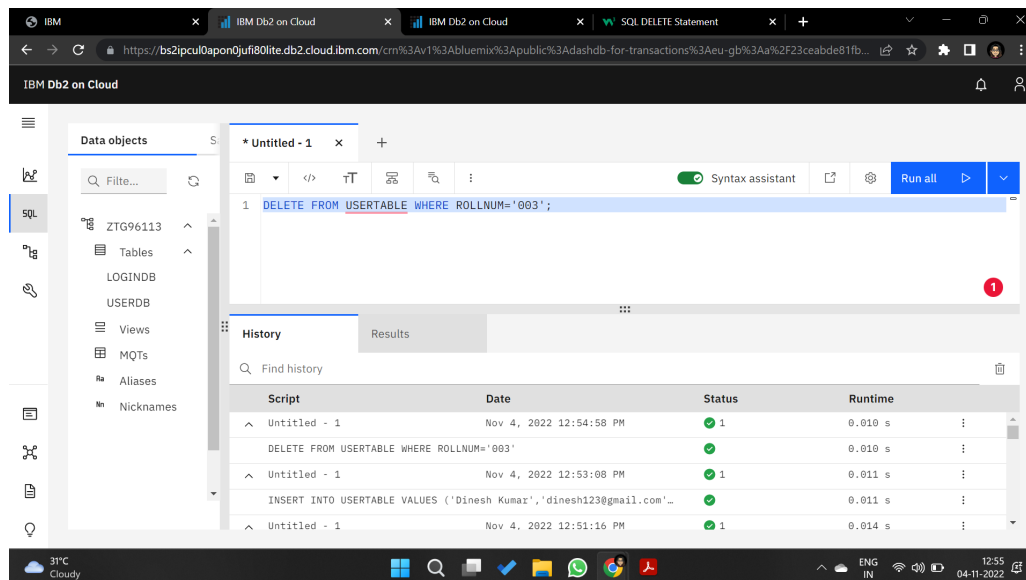Using UPDATE to update values to the table:

Using DELETE to delete values to the table:

Before deletion :

After deletion :

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

App.py to connect python-flask with IBM DB2

```python
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=#;HOSTNAME=#;PORT=32731;USERNAME=#PASSWORD=#;SECURITY=SSL;SSL
SERVERCERTIFICATE=DigiCertGlobalRootCA.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)
```

```python
        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(prep_stmt, 1, username)

            ibm_db.bind_param(prep_stmt, 2, email)

            ibm_db.bind_param(prep_stmt, 3, password)

            ibm_db.execute(prep_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)
```

```python
        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)
```

Login.html for first vist registration:

```html
<!DOCTYPE html>

<html lang="en">


<head>

    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">
```

```html
    <meta name="viewport" content="width=device-width,
initial-scale=1.0">

    <title>Signin page </title>

    <style>
body{

    background-color:#eacefa !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:#fff;

    width: 40%;

    height: 430px;

    border-radius: 50px;

    margin: 100px;


}

.text1{

font-family: "Arial Black", Gadget, sans-serif;

font-size: 15px;

text-align: left;

letter-spacing: 1.2px;

word-spacing: 2px;

color: #eacefa;

font-weight: 400;

text-transform: capitalize;

padding: 1.6%;
```

```css
}
h1{
font-family: "Arial Black", Gadget, sans-serif;
font-size: 45px;
letter-spacing: 2px;
word-spacing: 2px;
color: #9999ff;
text-shadow: 2px 2px 0px #FFFFFF, 5px 4px 0px rgba(0,0,0,0.15), 2px 7px
2px rgba(230,204,255,0);
}


div{
    display: flex;
    align-items: center;
    justify-content: center;
    flex-direction: column;
    width: 90%;
}
.form-box{
    width: 90% !important;
    height:90% ;
    border-radius: 25px 25px;
    padding: 2.9%;
    border: 3px solid #A4A4A4;
}
.button
{
  background: #D3F6FA;
  border: #FAE5D3;
  border-radius: 28px;
  color: grey;
  font-size: 20px;
  padding: 10px 20px 10px 20px;
```

```css
      text-decoration: none;

   margin: 5%;

}

.button:hover {

   background: #FAE5D3;

   color: black;

}


   </style>
</head>


<body>


   <form method="post" action="login">

      <form action="/form_login" method="post">

      <h1>LOG-IN</h1>

      <div class="box">

         <label for="name" class="text1">Name</label>

         <input type="text" class="form-box" id="name " name="name"
placeholder="Enter Your Name">

      </div>


      <div class="box">

         <label for="exampleInputEmail1"
class="text1">Mail-Id</label>

         <input type="email" class="form-box" name="email"
id="exampleInputEmail1" placeholder="Enter Your Mail Id">

      </div>


      <div class="box">

         <label for="phone" class="text1">Phone Number</label>

         <input type="text" class="form-box" name="phone" id="phone"
placeholder="Enter Your Mobile Number">

      </div>
```

```html
        <div class="box">

            <label for="phone" class="text1">Set Password</label>

            <input type="password" class="form-box" name="phone"
id="phone" placeholder="Enter 6-digit password">

        </div>


        <button type="submit" class="button">Submit</button>

    </form>

</body>


</html>
```

Signin.html for already registered users:

```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>Login page </title>

    <style>
body{

    background-color:#eacefa !important;

    display: flex;

    flex-direction: column;

    align-items: center;

    justify-content: center;

}
```

```css
form{

    display: flex;

    flex-direction: column;

    align-items: center;

    justify-content: center;

    background-color:#fff;

    width: 40%;

    height: 430px;

    border-radius: 50px;

    margin: 100px;


}
.text1{

font-family: "Arial Black", Gadget, sans-serif;

font-size: 15px;

text-align: left;

letter-spacing: 1.2px;

word-spacing: 2px;

color: #eacefa;

font-weight: 400;

text-transform: capitalize;

padding: 1.6%;

}

h1{

font-family: "Arial Black", Gadget, sans-serif;

font-size: 45px;

letter-spacing: 2px;

word-spacing: 2px;

color: #9999ff;

text-shadow: 2px 2px 0px #FFFFFF, 5px 4px 0px rgba(0,0,0,0.15), 2px 7px
2px rgba(230,204,255,0);

}

h3{
```

```css
font-family: "Arial Black", Gadget, sans-serif;

font-size: 14px;

letter-spacing: 1.2px;

color: grey;

}

div{

    display: flex;

    align-items: center;

    justify-content: center;

    flex-direction: column;

    width: 90%;

}

.form-box{

    width: 90% !important;

    height:90% ;

    border-radius: 25px 25px;

    padding: 2.9%;

    border: 3px solid #A4A4A4;

}

.button

{

  background: #D3F6FA;

  border: #FAE5D3;

  border-radius: 28px;

  color: gray;

  font-size: 20px;

  padding: 10px 20px 10px 20px;

  text-decoration: none;

  margin: 5%;

}

.button:hover {

  background: #FAE5D3;

  color: black;
```

```
}

    </style>

</head>


<body>


    <form method="post" action="login">

        <form action="/form_login" method="post">

        <h1>SIGN-IN</h1>

        <div class="box">

            <label for="name" class="text1">Username</label>

            <input type="text" class="form-box" id="name " name="name"
placeholder="Enter Your Name">

        </div>




        <div class="box">

            <label for="password" class="text1">Password</label>

            <input type="password" class="form-box" name="phone"
id="phone" placeholder="Enter Your Password">

        </div>

        <button type="submit" class="button">Sign-in</button>

        <h3>If you are a new user try logging-in first</h3>

    </form>

</body>



</html>
```

Index.html as a welcoming dashboard redirecting after singing in:

```
<!DOCTYPE html>

<html>

<head>
```

```
<meta name="viewport" content="width=device-width, initial-scale=1">
<title>Welcome!</title>
<style>
@import url(https://fonts.googleapis.com/css?family=Khula:700);
body {
  background: #111;
  background-color: antiquewhite;
}
.hidden {
  opacity:0;
}
.console-container {

  font-family:Khula;
  font-size:4em;
  text-align:center;
  height:200px;
  width:600px;
  display:block;
  position:absolute;
  color:white;
  top:0;
  bottom:0;
  left:0;
  right:0;
  margin:auto;
}
.console-underscore {
    display:inline-block;
  position:relative;
  top:-0.14em;
  left:10px;
}
```

```html
</style>


</head>
<body>
<div class="main">

    <div class='console-container'><span id='text'></span>

        <div class='console-underscore' id='console'>&#95;</div></div>

</div>
<script>

    consoleText(['Welcome to the website','Team : PNT2022TMID17803',
'Wait for sometime.'], 'text',['tomato','rebeccapurple','lightblue']);


  function consoleText(words, id, colors) {

    if (colors === undefined) colors = ['#fff'];

    var visible = true;

    var con = document.getElementById('console');

    var letterCount = 1;

    var x = 1;

    var waiting = false;

    var target = document.getElementById(id)

    target.setAttribute('style', 'color:' + colors[0])

    window.setInterval(function() {


      if (letterCount === 0 && waiting === false) {

        waiting = true;

        target.innerHTML = words[0].substring(0, letterCount)

        window.setTimeout(function() {

          var usedColor = colors.shift();

          colors.push(usedColor);

          var usedWord = words.shift();

          words.push(usedWord);

          x = 1;

          target.setAttribute('style', 'color:' + colors[0])
```

```
          letterCount += x;

          waiting = false;

        }, 1000)

      } else if (letterCount === words[0].length + 1 && waiting ===
false) {

          waiting = true;

          window.setTimeout(function() {

            x = -1;

            letterCount += x;

            waiting = false;

          }, 1000)

      } else if (waiting === false) {

          target.innerHTML = words[0].substring(0, letterCount)

          letterCount += x;

      }

    }, 120)

    window.setInterval(function() {

      if (visible === true) {

        con.className = 'console-underscore hidden'

        visible = false;


      } else {

        con.className = 'console-underscore'


        visible = true;

      }

    }, 400)

  }

    </script>

</body>

</html>
```

OUTPUT :

SIGN-IN

Username

Charu Nethra

Password

••••••••

Sign-in

If you are a new user try logging-in first

Welcome to the website _