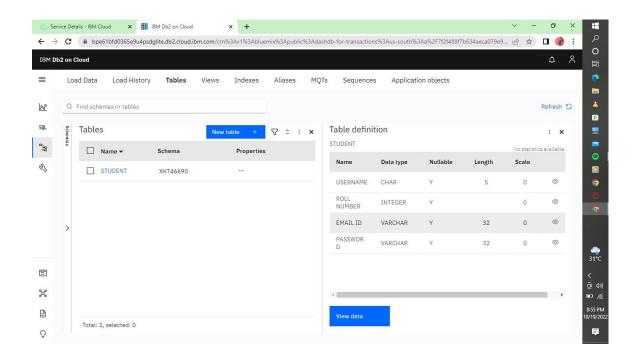
# Assignment -2 IBM CLOUD DB2

Assignment Date	29 September 2022
Student Name	Ganesh Kumar
Student Roll Number	812019205009
Maximum Marks	2 Marks

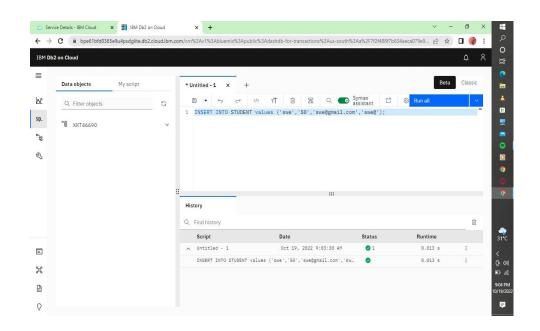
# **Questions:**

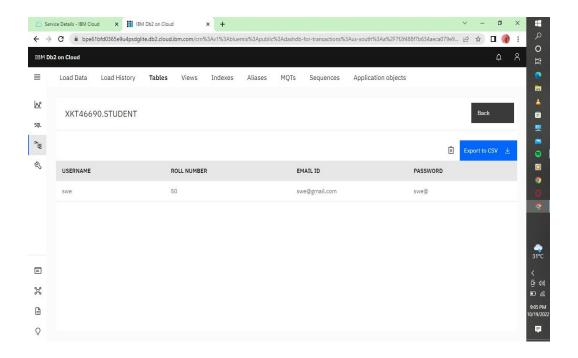
• Create User table with user with email, username, roll number, password.



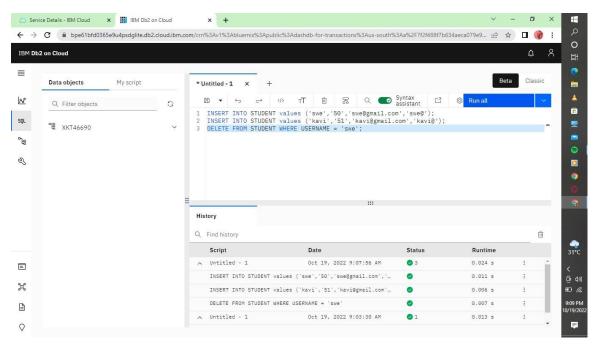
Perform UPDATE, DELETE Queries with user table.

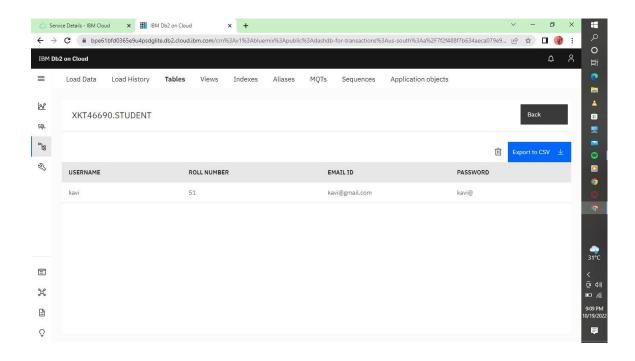
**UPDATE TABLE:-**





#### **DELETE TABLE:-**





#### 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

#### **Answers**

#### 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=Db2New; HOSTNAME=19af6446-6171-4641-8aba-
9dcff8e1b6ff.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30699;USERNAM
E=kgb92696;PASSWORD=3I1WyGYU3bMIvwnX;SECURITY=SSL;SSLSERVERCERTIFICATE=DigiCer
tGlobalRootCA.crt;", "", "")
@app.route("/", methods=['GET', 'POST'])
def register(): msg = ''
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)
        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 =
ibm_db.bind_param(stmt, 1, username)
                                          ibm_db.bind_param(stmt,
                   ibm db.execute(stmt)
                                              account =
2, password)
ibm db.fetch assoc(stmt)
                              print(account)
                                                    if account:
           session['loggedin'] = True
session['id'] = account['USERNAME']
                                            userid
                      session['username']
= account['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)
```

# 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">
<title>Plasma donor application register</title>
    <!-- bootstrap css cdn --> <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css
        integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous"> <link rel="stylesheet"</pre>
href="https://cdnjs.cloudflare.com/ajax/libs/fontawesome/4.7.0/css/fontawes
ome.css">
   <!-- css stylesheet -->
   <link rel="stylesheet" href="Style.css">
   <!-- font styles cdn -->
    <link rel="preconnect" href="https://fonts.gstatic.com">
    <link href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"</pre>
rel="stylesheet">
   k
href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
</head>
<body>
   <!-- bootstrap navbar -->
   <!-- Login form -->
   <div class="login text-center mt-5">
        <form action="/" method="post">
            <h2 class="form-text-h2"> Register Form </h2>
            <div class="msg">{{ msg }}</div>
            <input type="text" class="form-control" name="username"</pre>
placeholder="Enter Your Username" id="username"
                                                                 required>
            <input type="email" class="form-control" name="email"</pre>
placeholder="Enter Your Email ID" id="email" required>
            <input type="password" class="form-control" name="password"</pre>
placeholder="Enter Your Password" id="password"
                                                                 required>
            <button type="submit" id="button" class="btn btn-primary"> Register
</button>
            <div class="note mt-3 text-center">
```

#### Login.html

```
<!DOCTYPE html>
<html <pre>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>Plasma Donor Application Login</title>
    <!-- <link rel="shortcut icon" href="/assets/img/favicon.ico" type="image/x-
    <!-- <link rel="icon" href="/assets/img/favicon.ico" type="image/x-icon"> -->
    <link rel="icon" type="image/png" sizes="16x16"</pre>
href="/assets/img/favicon32x32.png">
    <!-- bootstrap css cdn -->
<link rel="stylesheet"</pre>
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css
        integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
                             <link rel="stylesheet"</pre>
href="https://cdnjs.cloudflare.com/ajax/libs/fontawesome/4.7.0/css/fontawesome.cs
s">
    <!-- css stylesheet -->
    <link rel="stylesheet" href="style.css">
    <!-- font styles cdn -->
    <link rel="preconnect" href="https://fonts.gstatic.com">
    k
href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
rel="stylesheet">
    k
href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
```

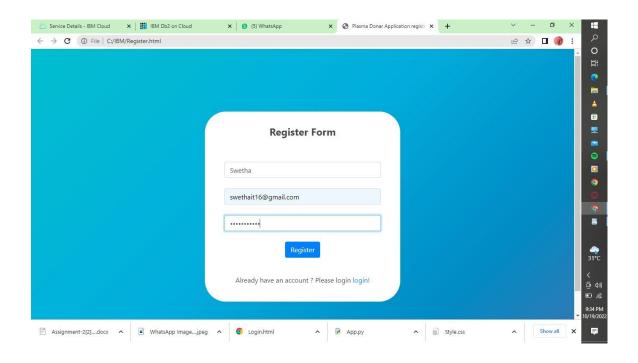
```
</head>
<body>
    <div class="login text-center mt-5">
        <form action="/login" method="post">
            <h2 class="form-text-h2"> Login Form </h2>
            <div class="msg">{{ msg }}</div>
            <div class="form-group mb-3">
                <label class="label" for="username">Username</label>
<input type="text" class="form-control" placeholder="Username" name="username"</pre>
required>
            </div>
            <div class="form-group mb-3">
                <label class="label" for="password">Password</label>
<input type="password" class="form-control" placeholder="Password"</pre>
name="password" required>
            </div>
            <button type="submit" id="button" class="btn btn-primary"> Login
</button>
            <div class="note mt-3 text-center">
                <!--Register form -->
                 Don't have an account yet? Click here to <a
href="/">register! </a> 
                                 </div>
        </form>
    </div>
</body>
</html>
```

#### Style.css

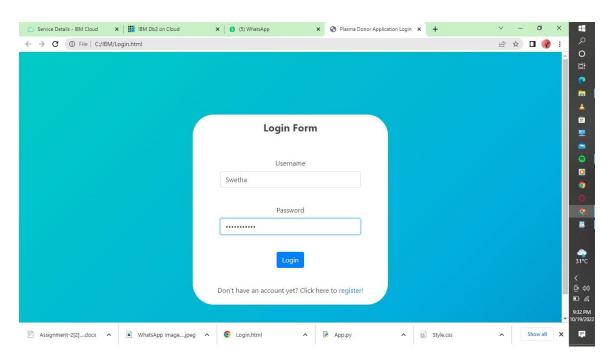
```
margin: 0;
padding: 0;
    align-items: center; justify-content:
            animation: anime 10s ease-in-out
center;
infinite;
@keyframes anime{
  0%{
             background-position:
0 50%;
  } 50%{
                  backgroundposition:
100% 50%; } 100%{
background-position: 0 50%;
```

```
} } form {
              display:
flex;
         flex-direction:
           align-items:
column;
           justify-content:
center;
center;
          backgroundcolor:
         width: 40%;
white;
height: 450px;
                  border-
radius: 50px;
                 margin:
100px;
           gap:
25px;
           font-size:
} h2 {
large;
          font-weight:
bolder;
} input {
              width: 80%
!important;
} div {
           display: flex;
align-items:
                   center;
justify-content:
                   center;
flex-direction:
                   column;
width: 90%;
.form-text-vk { fontsize:
small;
} body
   color: #444444;
                       background:linear-gradient(-45deg, #EE7752, #E73C7E,
#23A6D5, #23D5AB);
                      background-size: 400% 400%;
                                                   position: relative;
display: flex;
                flex-direction: column;
  padding-bottom: 10px;
```

# **OUTPUT:- REGISTRATION PAGE:-**



### **LOGIN PAGE:-**



# **WELCOME PAGE:-**

