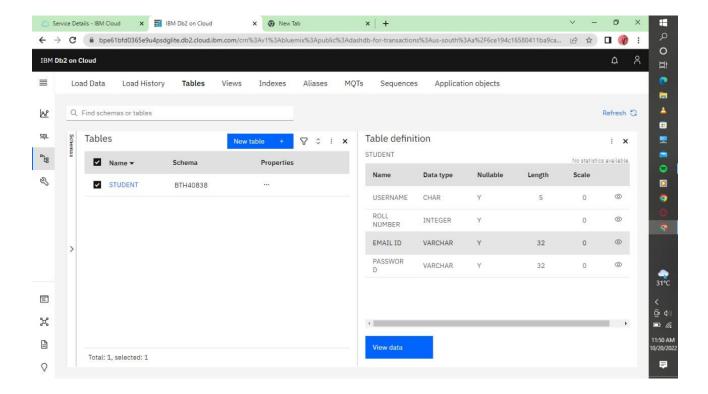
Assignment -2 IBM CLOUD DB2

| Assignment Date | 29 September 2022 |
|---------------------|-------------------|
| Student Name | NIVETHA N |
| Student Roll Number | 613019205034 |
| Maximum Marks | 2 Marks |

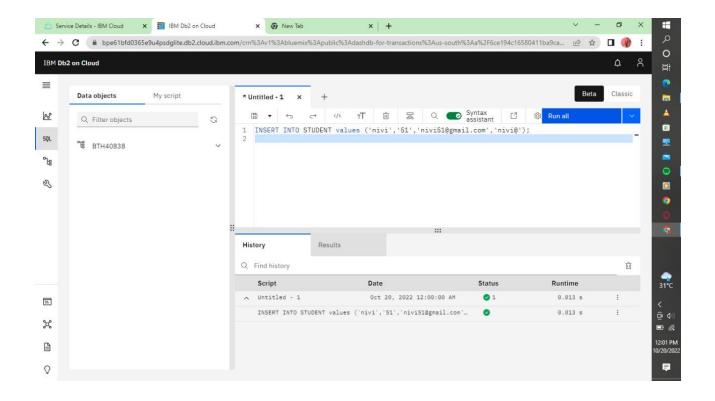
Questions:

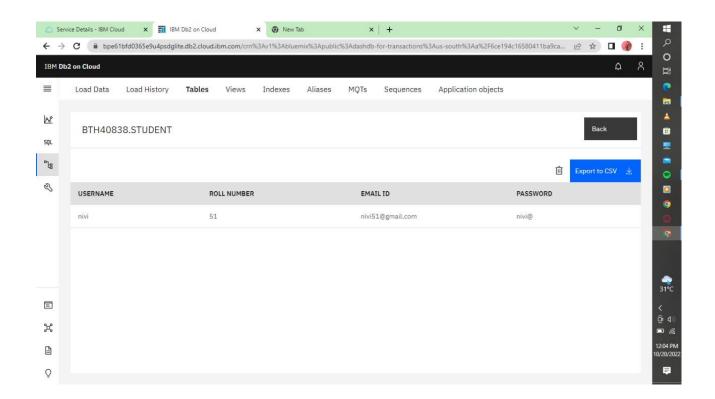
• Create User table with user with email, username, roll number, password.



• Perform UPDATE, DELETE Queries with user table

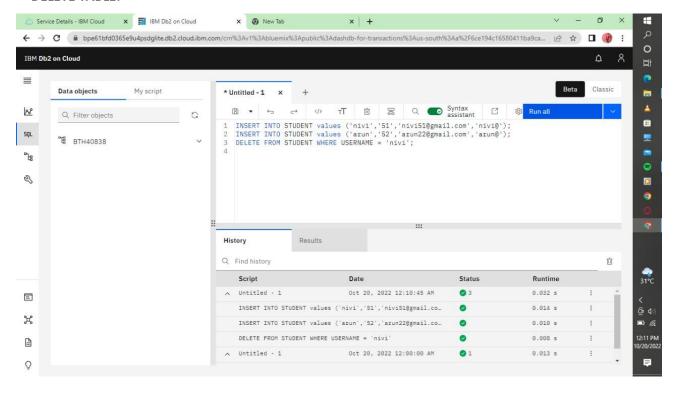
UPDATE TABLE:-

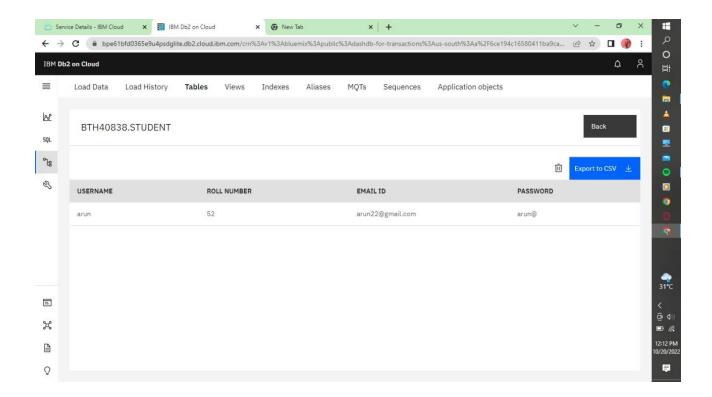




for

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=31lWyGYU3bMIvwnX;SECURITY=SSL;SSLSERVERCERTIFICATE=DigiCer
tGlobalRootCA.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)
        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
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 =
stmt = ibm db.prepare(conn, sql)
ibm_db.bind_param(stmt, 1, username)ibm_db.bind_param(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)
```

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/font-
awesome.css">
    <!-- 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">
    link
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"
reauired>
            <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-icon"> -->
    <!-- <link rel="icon" href="/assets/img/favicon.ico" type="image/x-icon">
                   rel="icon"
                                       type="image/png"
                                                                sizes="16x16"
    link
href="/assets/img/favicon32x32.png">
<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/font-
awesome.css">
    <!-- 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">
    link
href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
```

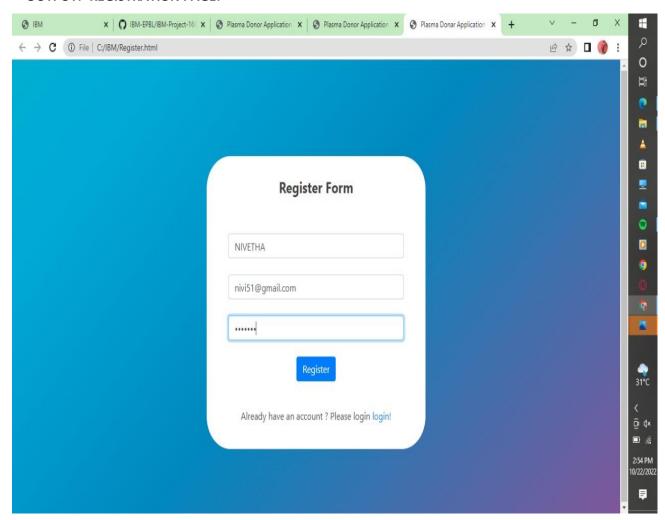
```
rel="stylesheet">
</head>
<body>
    <div class="login text-center mt-5">
        <form action="/login" method="post">
            <h2 class="form-text-h2"> Login Form </h2>
            <div class="msg">{{ msg }}</div>
            <div class="form-group mb-3">
                <label class="label" for="username">Username</label>
                <input type="text" class="form-control" placeholder="Username"</pre>
name="username" required>
            </div>
            <div class="form-group mb-3">
                <label class="label" for="password">Password</label>
                <input type="password" class="form-control"</pre>
placeholder="Password" 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</p>
href="/">register! </a> 
                                        </div>
        </form>
    </div>
</body>
</html>
```

Style.css

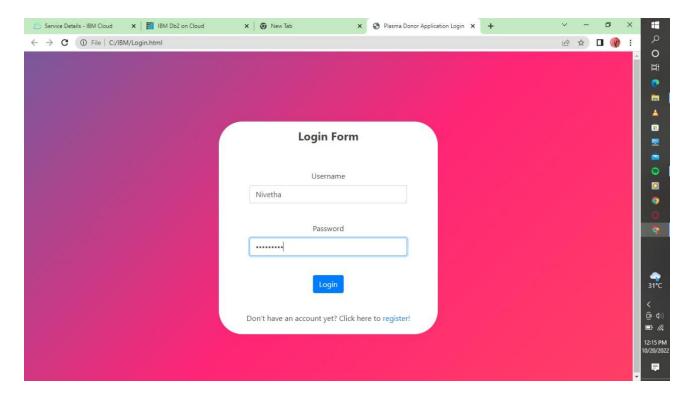
```
# {
    margin: 0;
padding: 0;
    align-items: center;    justify-content:
    center;    animation: anime 10s ease-in-out
    infinite;
}
@keyframes anime{
        0%{         background-position:
        0 50%;
      } 50%{         background-
        position: 100% 50%;    } 100%{
        background-position: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

```
} form {display:
          flex-direction:
 flex;
 column;
            align-items:
 center;
            justify-content:
          background-
 center;
 color: white;
                 width:
         height: 450px;
 40%;
 border-radius: 50px;
 margin: 100px; gap:
 25px;
 } h2 {
           font-size:
 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 { font-
 size: 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;
.form-text-h2 { font-size: x-large; padding-top: 10px;
```

OUTPUT:- REGISTRATION PAGE:-



LOGIN PAGE:-



WELCOME PAGE:-

