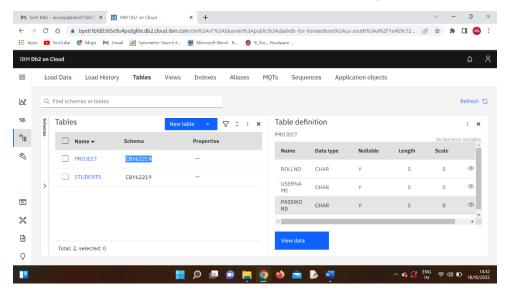
# Assignment -2 IBM CLOUD DB2

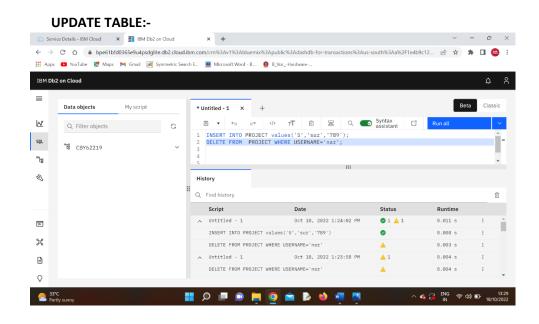
Assignment Date	29 September 2022
Student Name	SURUTHI R
Student Roll Number	613019104083
Maximum Marks	2 Marks

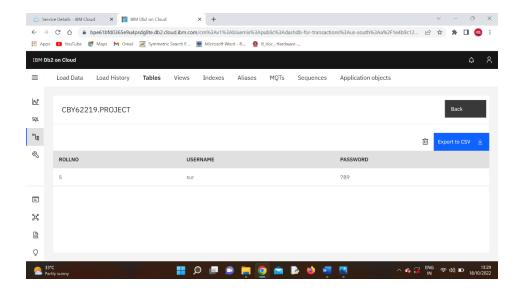
## **Questions:**

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

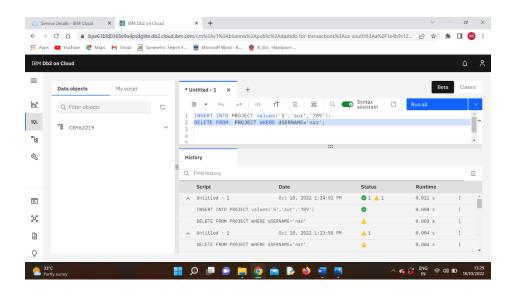


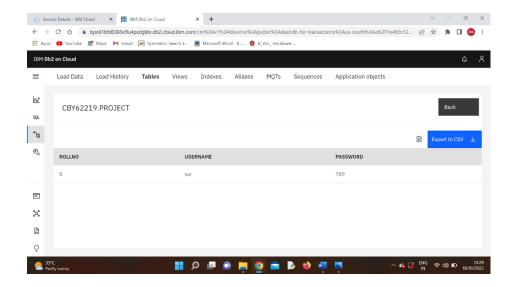
2. Perform UPDATE, DELETE Queries with user table.





## **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.clogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30699;USERNAM
E=kgb92696;PASSWORD=3I1WyGYU3bMIvwnX;SECURITY=SSL;SSLSERVERCERTIFICATE=DigiCer
tGlobalRootCA.crt;", "", "")
@app.route("/", methods=['GET',
                          msg = ''
'POST']) def register():
if request.method == 'POST':
        username = request.form['username']
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)
                       if account:
print(account)
            msg = 'Account already exists !'
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, 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'])
                 global userid msg = ''
def Login():
     if request.method ==
'POST':
        username = request.form['username']
                                                    password =
                            sql = "SELECT * FROM users WHERE
stmt = ibm_db.prepare(conn, sql)
request.form['password']
username =? AND password=?"
ibm_db.bind_param(stmt, 1, username)
                                             ibm db.bind param(stmt,
2, password)
                    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)
```

```
<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>Skill and Job Recommender register</title>
         <!-- bootstrap css cdn --> <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">href="https://stackpath.bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.c
                   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">
href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
rel="stylesheet">
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="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>
```

## Login.html

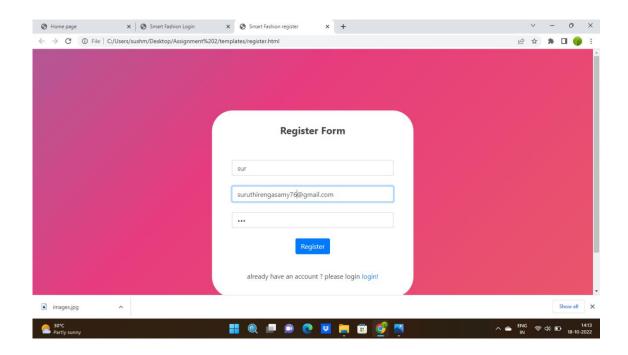
```
<!DOCTYPE html>
<html <a href="lang">tang="en"></a>
<head>
           <meta charset="UTF-8">
           <meta http-equiv="X-UA-Compatible" content="IE=edge">
           <meta name="viewport" content="width=device-width, initial-scale=1.0">
           <title>Skill and Job RecommenderLogin</title>
           <!-- favicon -->
                                <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">
           k
                                                     rel="icon"
                                                                                                              type="image/png"
                                                                                                                                                                                       sizes="16x16"
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">href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">href="https://stackpath.bootstrapcdn.com/bootstrapcdn.com/bootstrap.min.css">href="https://stackpath.bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/bootstrapcdn.com/boots
                       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="style2.css">
           <!-- font styles cdn -->
           <link rel="preconnect" href="https://fonts.gstatic.com">
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"</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 href="/">register! </a> 
                                           </div>
        </form>
    </div>
</body>
</html>
```

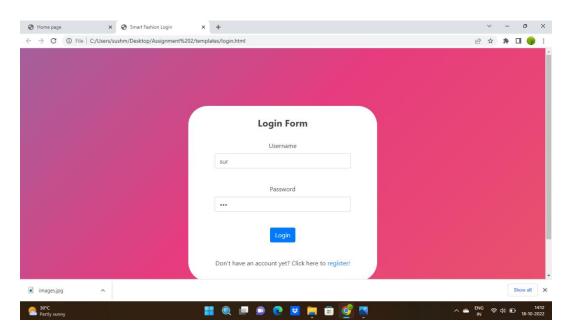
```
margin: 0;
padding: 0;
body
    color: #444444;
                          background:linear-gradient(-45deg, #EE7752,
#E73C7E, #23A6D5, #23D5AB); background-size: 400% 400%; position: relative; display: flex; flex-direction: column;
align-items: center; justify-content:
center; animation: anime 10s ease-in-out
infinite;
@keyframes anime{
0%{ background-position:
0 50%;
} 50%{ background
position: 100% 50%; } 100%{
background-position: 0 50%;
} } form { display:
flex; flex-direction:
column; align-items:
center; justify
content: center;
background-color: white;
width: 40%; height:
450px; 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;
```

```
padding-bottom: 10px;
}
.form-text-h2 { font-size: x-large; padding-top: 10px;
```

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



## **LOGIN PAGE:-**



# **WELCOME PAGE:-**

