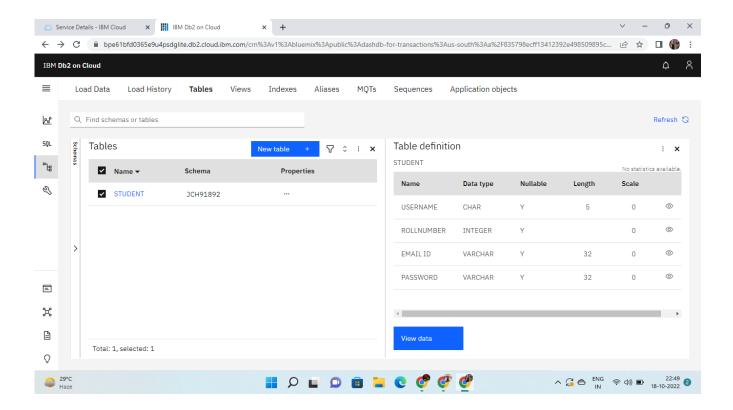
# Assignment -2 IBM CLOUD DB2

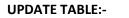
| Student Name        | Suba Sri. S  |
|---------------------|--------------|
| Student Roll Number | 613019104081 |
| Maximum Marks       | 2 Marks      |

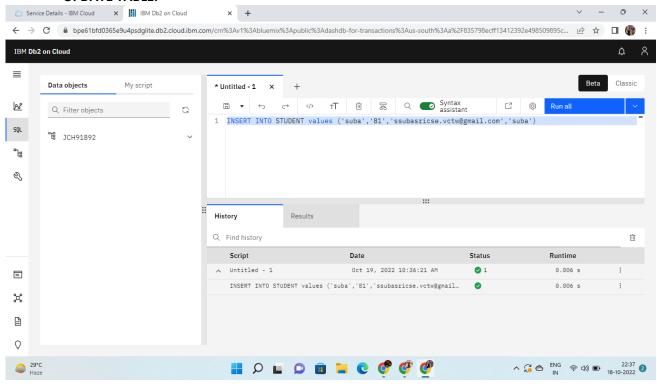
## **Questions:**

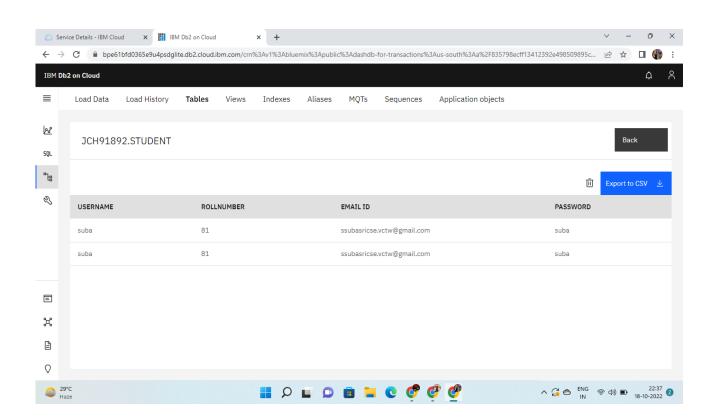
1. Create User table with user with email, username, roll number, password.



2. Perform UPDATE, DELETE Queries with user table.







#### **DELETE TABLE:-**Service Details - IBM Cloud X IBM Db2 on Cloud × + 🗧 ightarrow C 🖟 ppe61bfd0365e9u4psdglite.db2.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2F835798ecff13412392e498509895c... 😥 🖈 🔲 🚯 🚼 IBM Db2 on Cloud $\equiv$ Beta Classic Data objects My script \* Untitled - 1 × + → 小 T 直 器 Q Syntax assistant C 0 æ Q Filter objects INSERT INTO STUDENT values ('suba','81','ssubasricse.vctw@gmail.com','suba'); INSERT INTO STUDENT values ('abi','07','abi@gmail.com','dhoni'); DELETE FROM STUDENT WHERE USERNAME = 'suba'; SQL ℃ JCH91892 Ъ Ø History Q Find history Ū Script Date Status Runtime Oct 19, 2022 10:47:06 AM 3 0.013 s ∧ Untitled - 1 INSERT INTO STUDENT values ('suba','81','ssubasricse.vctw@gmail... 0.005 5 × INSERT INTO STUDENT values ('abi','07','abi@gmail.com','dhoni') **②** 0.004 s DELETE FROM STUDENT WHERE USERNAME = 'suba Ō ^ G ← ENG ← Φ) ■ 22:47 2 🔡 🔎 🕍 👂 📵 📜 😍 🤡 🥙 Service Details - IBM Cloud x IBM Db2 on Cloud 🗧 🗦 😯 🕯 bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2F835798ecff13412392e498509895c... 😥 🛨 IBM Db2 on Cloud Φ $\equiv$ Load Data Load History Tables Views Indexes Aliases MQTs Sequences Application objects ps. JCH91892.STUDENT SOL ъ Ô USERNAME ROLLNUMBER EMAIL ID PASSWORD ssubasricse.vctw@gmail.com suba 81 ssubasricse.vctw@gmail.com

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#### 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 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)
        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>Smart Fashion register</title>
    <!-- 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" href="https://cdnjs.cloudflare.com/ajax/libs/font-</pre>
awesome/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">
    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"
            <button type="submit" id="button" class="btn btn-primary">
Register </button>
```

#### Login.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>Smart Fashion Login</title>
    <!-- <link rel="shortcut icon" href="/assets/img/favicon.ico"
    <!-- <li>k rel="icon" href="/assets/img/favicon.ico" type="image/x-icon">
    <link rel="icon" type="image/png" sizes="16x16" href="/assets/img/favicon-</pre>
32x32.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" href="https://cdnjs.cloudflare.com/ajax/libs/font-</pre>
awesome/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</p>
href="/">register! </a> 
            </div>
        </form>
    </div>
</body>
</html>
Style.css
    margin: 0;
    padding: 0;
body {
    color: #444444;
    background:linear-gradient(-45deg, #EE7752, #E73C7E, #23A6D5, #23D5AB);
    background-size: 400% 400%;
```

position: relative;

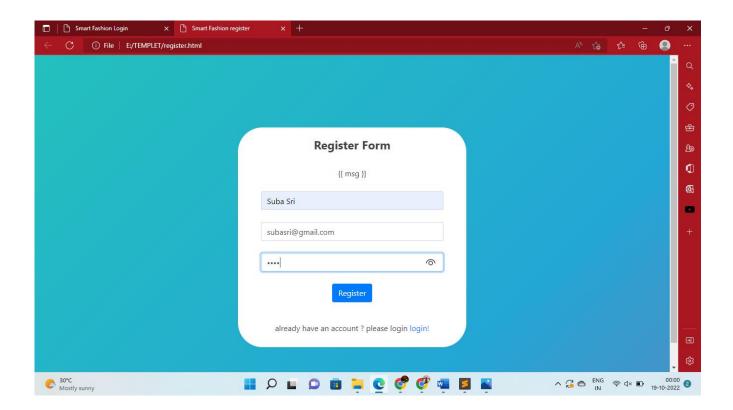
flex-direction: column;

display: flex;

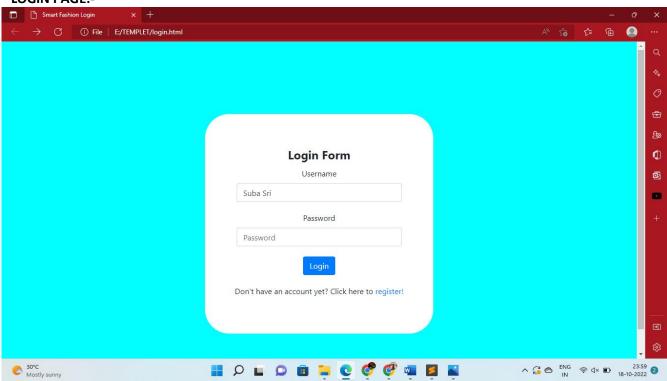
```
align-items: center;
    justify-content: center;
    animation: anime 10s ease-in-out infinite;
@keyframes anime{
  0%{
        background-position: 0 50%;
  50%{
        background-position: 100% 50%;
  100%{
        background-position: 0 50%;
  }
form {
    display: flex;
    flex-direction: 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:-**

