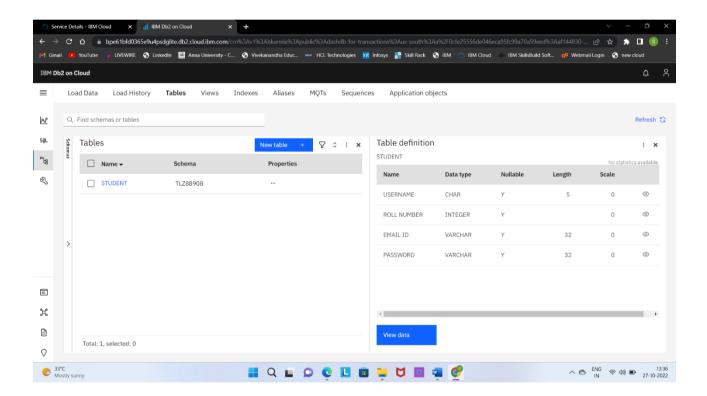
ASSIGNMENT-2

IBM CLOUD DB2

Assignment Date	29 September 2022
Student Name	Sharmila Devi A S
Student Roll Number	613019106058
Maximum Marks	2 Marks

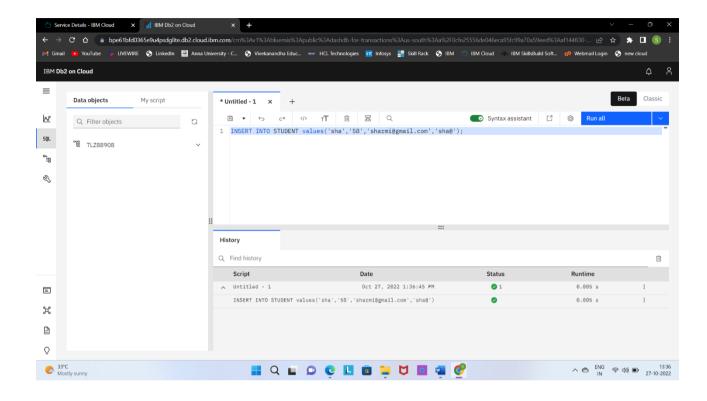
Questions:

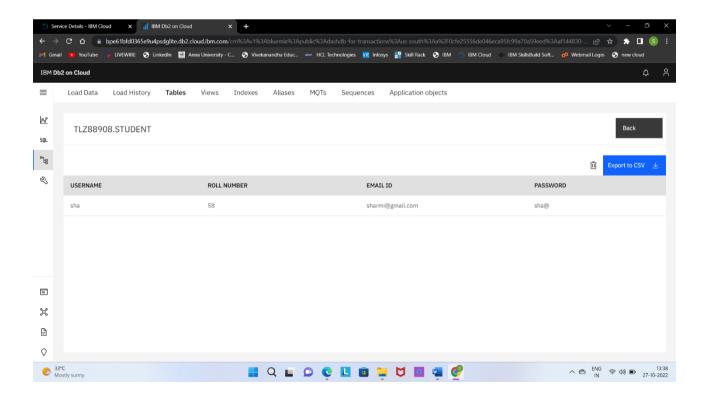
1. Create User table with user with email, username, roll number, password.



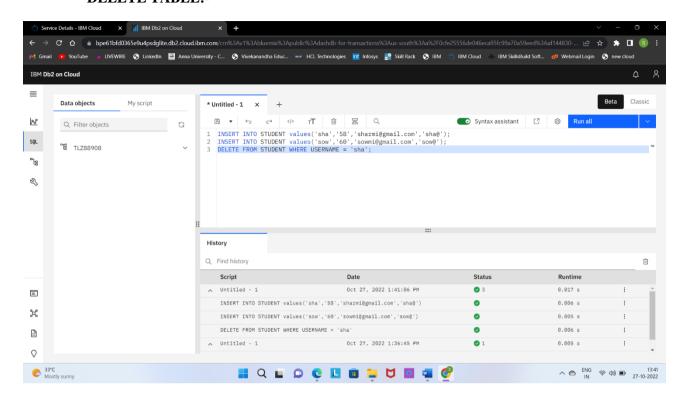
2. Perform UPDATE, DELETE Queries with user table.

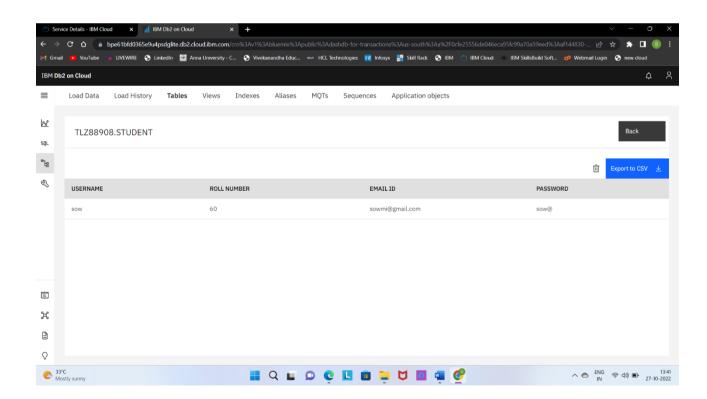
UPDATE TABLE:-





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=3||WyGYU3bM|vwnX;SECUR|TY=SSL;SSLSERVERCERT||F||CATE=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 charse t="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>News Tracker Application register</title>
    <!-- bootstrap css cdn -->
    k re/="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css
        integrity="sha384-
JcKb8g3igJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
    k re/="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.css">
    <!-- css sty/esheet -->
    k rel="stylesheet" href="Style.css">
    <!-- font styles cdn -->
    k rel="preconnect" href="https://fonts.gstatic.com">
    link
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 -->
    <!-- navbar ends -->
    <!-- Login form -->
    <div class="login text-center mt-5">
        <form action="/" me thod="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" c lass="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">
                <!--Register form -->
                 already have an account ? please login <a</p>
href="/login">login! </a> 
            </div>
        </form>
    </div>
</body>
</html>
```

Login.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charse t="UTF-8">
   <meta http-equiv="X-UA-Compatible" content="IE=edge">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>News Tracker Application Login</title>
    <!-- fav icon -->
    <!-- < 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/favicon-
32x32.png">
    <!-- bootstrap css cdn -->
    k rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css
        integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
    re/="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.css">
    <!-- css sty/esheet -->
    k rel="stylesheet" href="styless.css">
    <!-- font styles cdn -->
    k rel="preconnect" href="https://fonts.gstatic.com">
    link
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 c/ass="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 c/ass="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" c/ass="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>
```

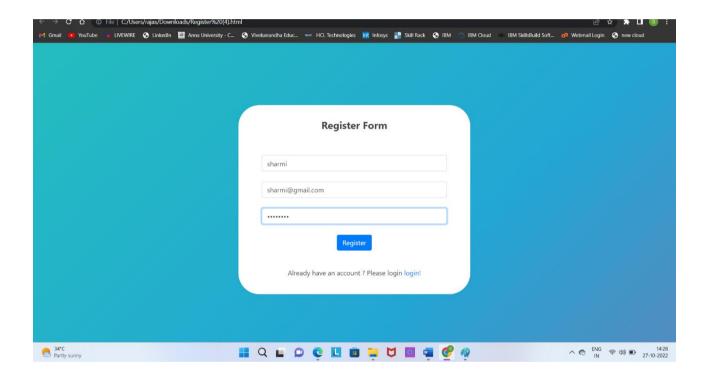
Style.css

```
* {
    margin: 0;
    padding: 0;
}
body {
    color: #444444;
    background:linear-gradient(-45deg, #EE7752, #E73C7E, #23A6D5, #23D5AB);
    background-size: 400% 400%;
    position: relative;
    display: flex;
    flex-direction: column;
```

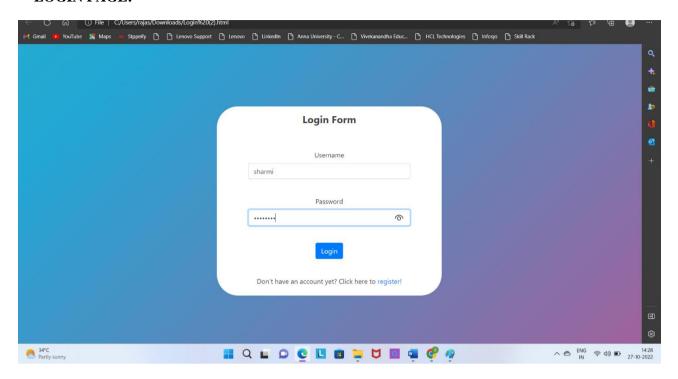
```
align-items: center;
   justify-content: center;
   animation: anime 10s ease-in-out infinite;
@keyframes anime{
 0%{
        background-position: 0 50%;
 50%{
        background-position: 100% 50%;
 100%{
        background-position: 0 50%;
 }
form {
   display: flex;
   flex-direction: column;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

