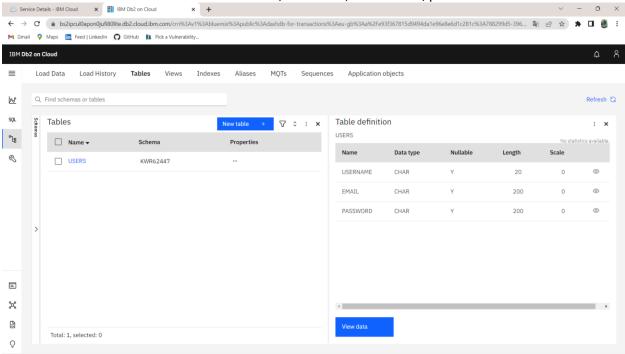
Assignment -2

IBM CLOUD DB2

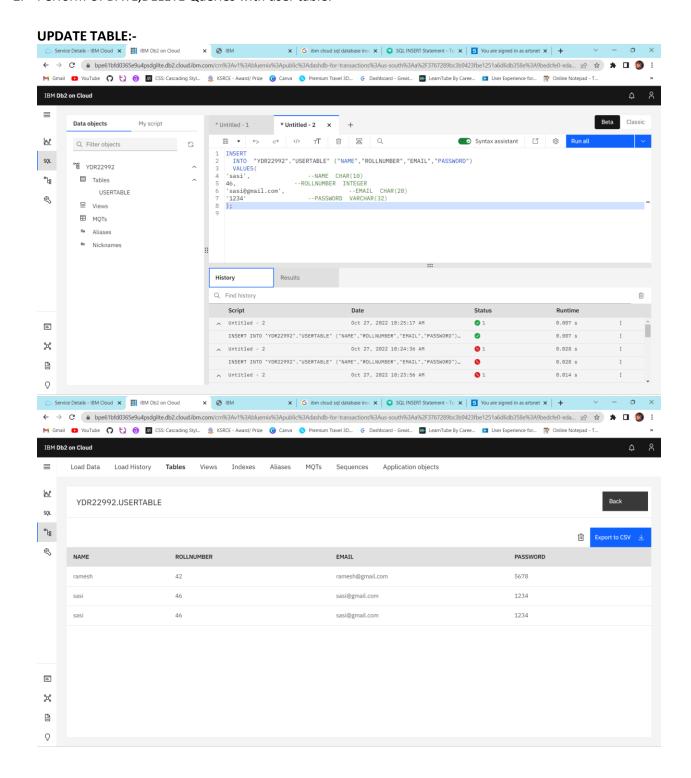
| Assignment Date | 29 September 2022 |
|---------------------|-------------------|
| Student Name | SOUNDAR M |
| Student Roll Number | 73151921049 |
| Maximum Marks | 2 Marks |

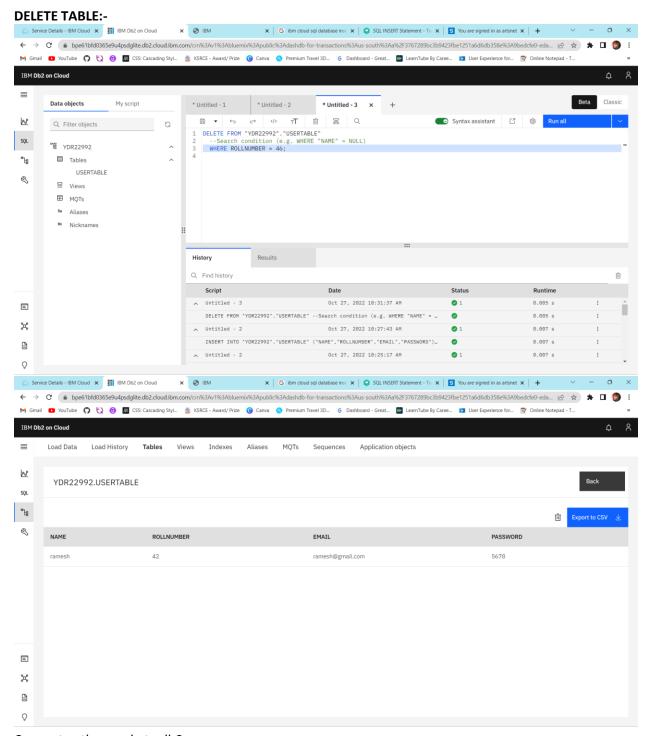
Questions:

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



2. Perform UPDATE, DELETE Queries with user table.





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.

```
om flask import Flask, render_template, request, redirect, url_for, session
import ibm_db
app = Flask(__name__)
app.secret_key = 'a'
conn = ibm db.connect(
    "DATABASE=bludb;HOSTNAME=55fbc997-9266-4331-afd3-888b05e734c0.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;
    PORT=31929;USERNAME=kwr62447;PASSWORD=s16om9GM9MwwcKiT;SECURITY=SSL;SSLSERVERCERTIFICATE=DigiCertGlobalRootCA.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 !'
              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']
          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)
```

Register.html

Login.html

```
DOCTYPE html>
<html lang="en">
  <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>Home page</title>
  <meta charset="UTF-8">
  <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"</pre>
   integrity="sha384-JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z" crossorigin="anonymous">
  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.css">
  <link rel="stylesheet" href="/static/style.css">
  <link 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">
  <H1>WELCOME TO HOME PAGE</H1>
  <img src="https://freepngimg.com/thumb/categories/1451.png" alt="img"</pre>
```

Style.css

```
margin: 0;
    padding: 0;
body {
   background: linear-gradient(to bottom right, ■#529aec, ■#d13d1b);
    display: flex;
    flex-direction: column;
    align-items: center;
    justify-content: center;
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;
    font-size: large;
    font-weight: bolder;
input {
   width: 80% !important;
    display: flex;
    align-items: center;
    justify-content: center;
    flex-direction: column;
    width: 90%;
.form-text-vk {
   font-size: small;
    padding-bottom: 10px;
    font-size: x-large;
    padding-top: 10px;
```

Output:registration page:-

