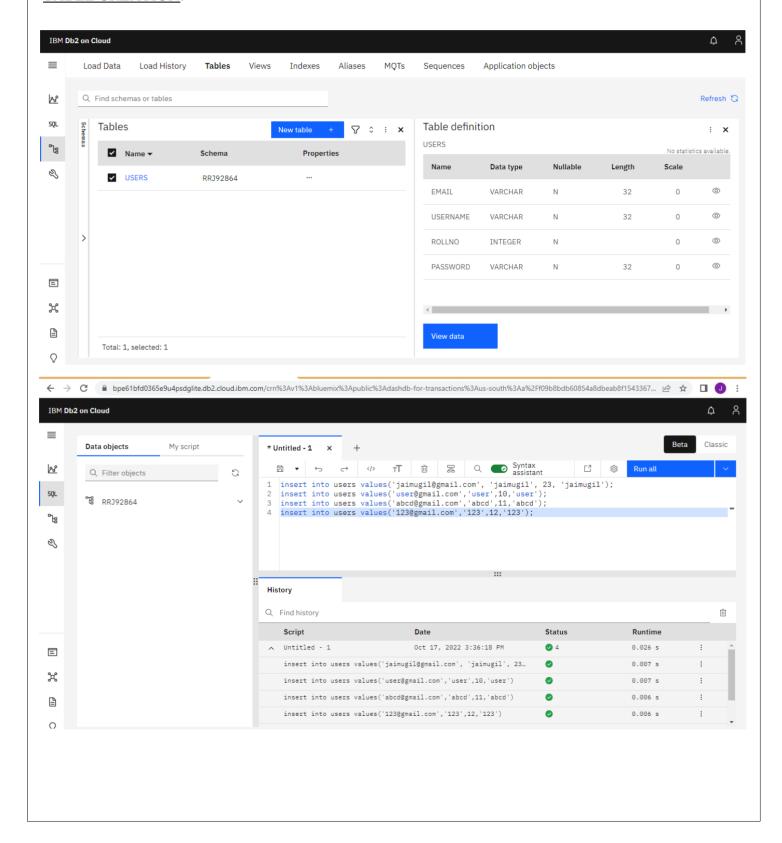
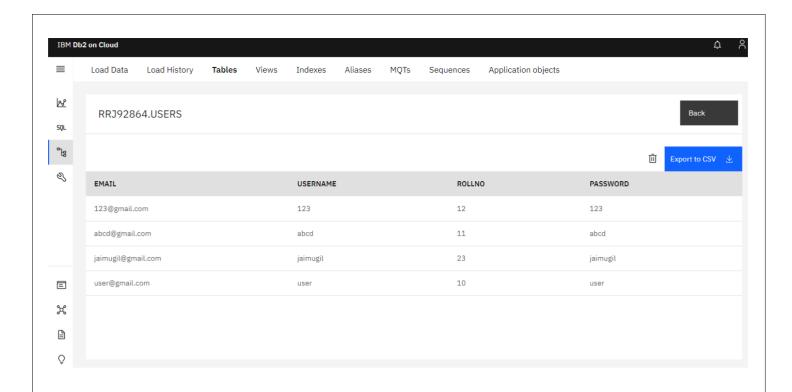
ASSIGNMENT – 2

Student Name	Jaimugil C
Student Roll number	311519104023
Team ID	PNT2022TMID27815

1. CREATE USER TABLE WITH USER WITH EMAIL, USERNAME, ROLL NUMBER, PASSWORD

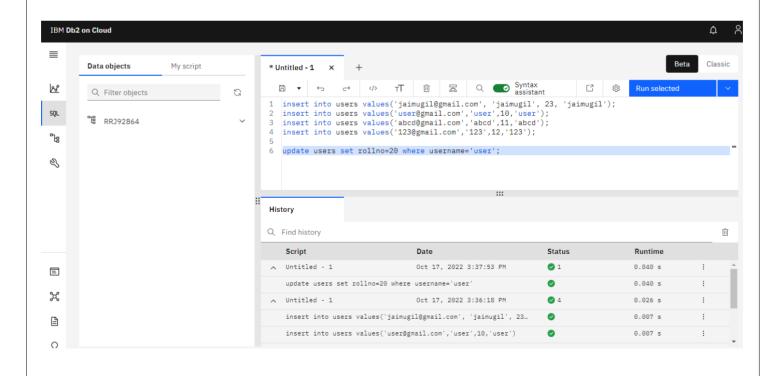
TABLE CREATION:

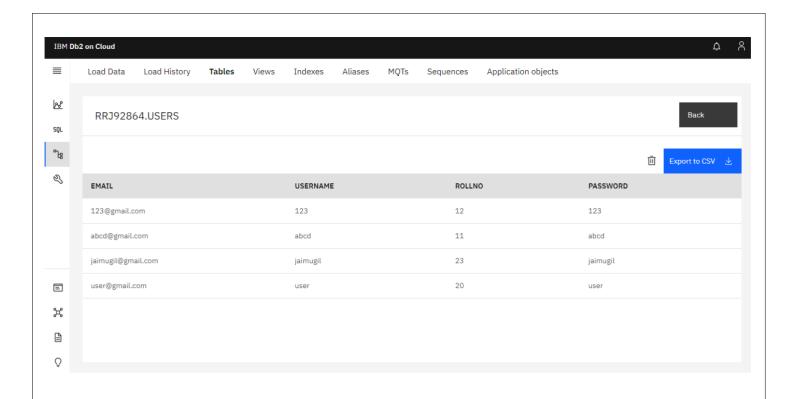




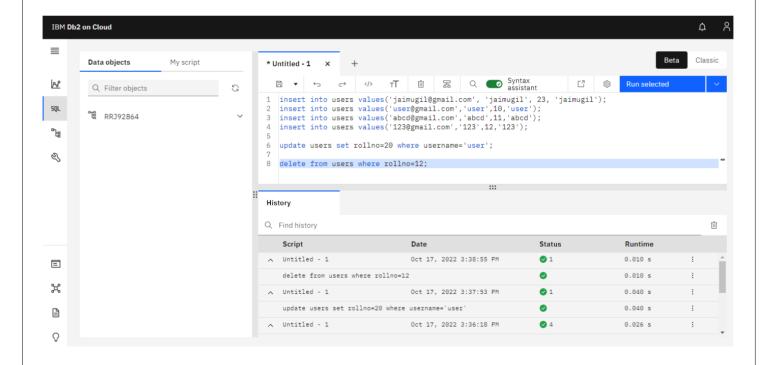
2. PERFORM UPDATE, DELETE QUERIES WITH USER TABLE

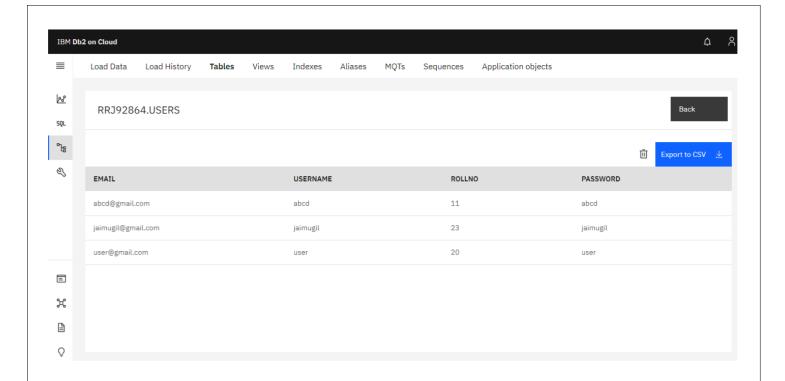
UPDATE QUERY:





DELETE QUERY:





3. CONNECT PYTHON TO DB2

```
CONNECTING TO DB:
ass.py
from flask import Flask, render_template, redirect, url_for, request, session
import ibm_db
import re
app = Flask(__name__)
app.secret_key = 'a'
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=54a2f15b-5c0f-46df-8954-
7e38e612c2bd.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32733;SECURITY=SSL;SSLServerCertif
icate=DigiCertGlobalRootCA.crt; UID=rrj92864; PWD=maDr7SBpdojnrqgv;", ", ")
@app.route('/')
def home():
  return render_template('reg2.html')
@app.route('/login', methods=["GET", "POST"])
def login():
  global userid
  msg = " "
  if request.method == "POST":
    username = request.form['uname']
    password = request.form['pwd']
    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)
```

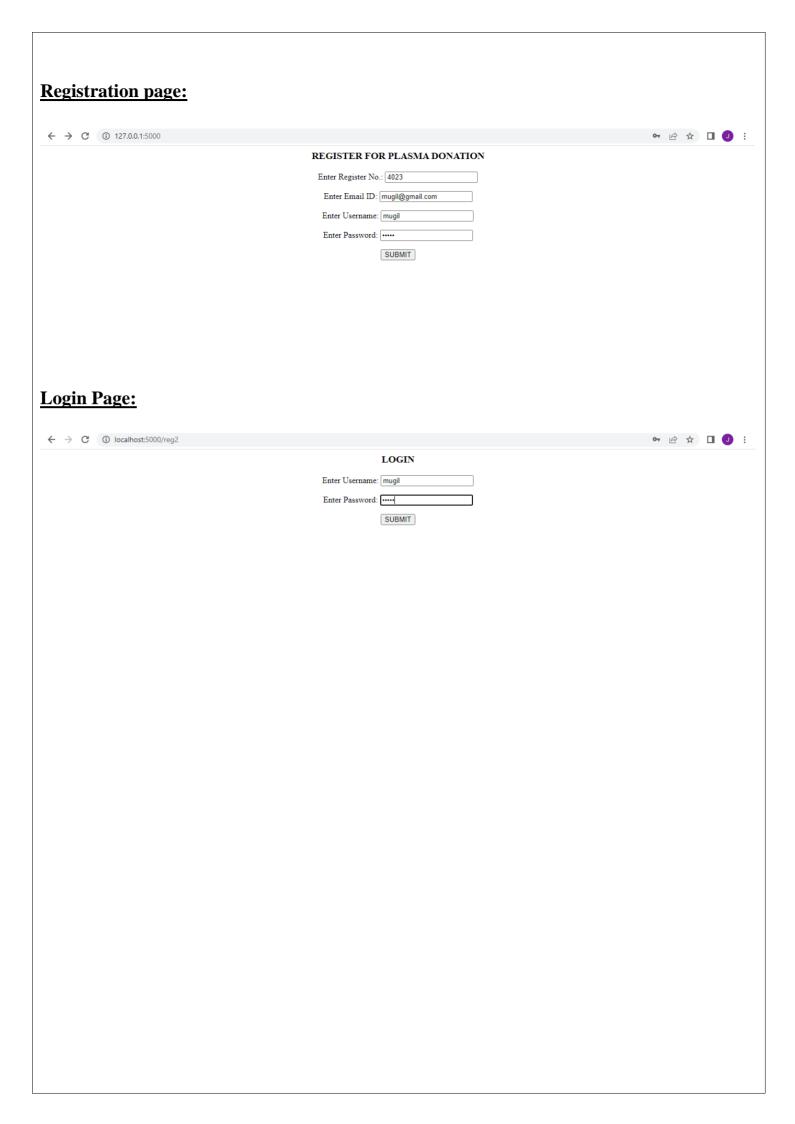
```
if account:
      session['loggedin'] = True
      session['id'] = account['USERNAME']
      userid = account["USERNAME"]
      session['username'] = account["USERNAME"]
      msg = 'Logged in successfully!'
      return redirect(url for('welcome', username=username))
    else:
      msg = "Incorrect Username/Password"
      return render_template('login.html', msg=msg)
@app.route('/reg2', methods=["GET", "POST"])
def registration():
  msg = ""
  if request.method == "POST":
    username = request.form['uname']
    email = request.form['email']
    password = request.form['pwd']
    rollno = request.form['rollno']
    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 = "Username must contain only alphabets and numbers."
    else:
      insert_sql = "INSERT INTO USERS VALUES(?,?,?,?)"
      prep_stmt = ibm_db.prepare(conn, insert_sql)
      ibm_db.bind_param(prep_stmt, 1, email)
      ibm_db.bind_param(prep_stmt, 2, username)
      ibm_db.bind_param(prep_stmt, 3, rollno)
      ibm_db.bind_param(prep_stmt, 4, password)
      ibm db.execute(prep stmt)
      msg = "You have successfully registered."
    return render_template('login.html', msg=msg)
  elif request.method == 'POST':
    msg = "Please fill out the form."
    return render_template('reg2.html', msg=msg)
@app.route('/welcome/<username>')
def welcome(username):
  return "Welcome %s!" % username
```

```
if __name__ == "__main__": app.run(host='0.0.0.0')
```

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

```
reg.html (Registration Page):-
```

```
<html>
   <body>
     <center>
       <h3><b>REGISTRATION FOR PLASMA DONATION</b></h3>
       <form action = "http://localhost:5000/reg2" method ="POST">
         Enter Register No.: <input type = "text" name="rollno"/>
         Enter Email ID: <input type = "text" name="email"/>
         Enter Username: <input type = "text" name="uname"/>
         Enter Password: <input type = "password" name="pwd"/>
         <input type = "submit" value="SUBMIT"/>
       </form>
     </center>
   </body>
   </html>
   login.html (Login Page):-
   <html>
   <body>
     <center>
       <h3><b>LOGIN</b></h3>
       <form action = "http://localhost:5000/login" method = "POST">
         Enter Username: <input type = "text" name="uname"/>
         Enter Password: <input type = "password" name="pwd"/>
         <input type = "submit" value="SUBMIT"/>
       </form>
     </center>
</body>
</html>
```



Welcome Page:



Table Insertion:

