ASSIGNMENT – 2

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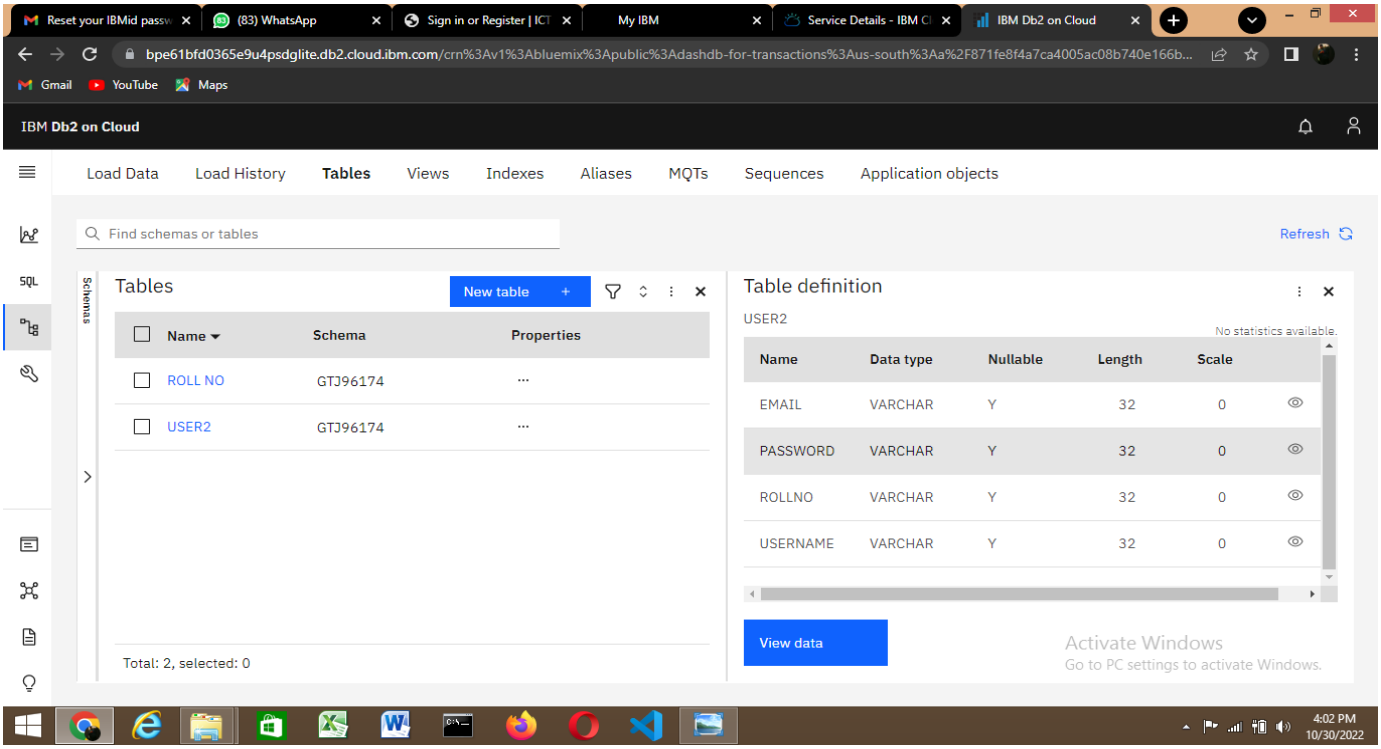
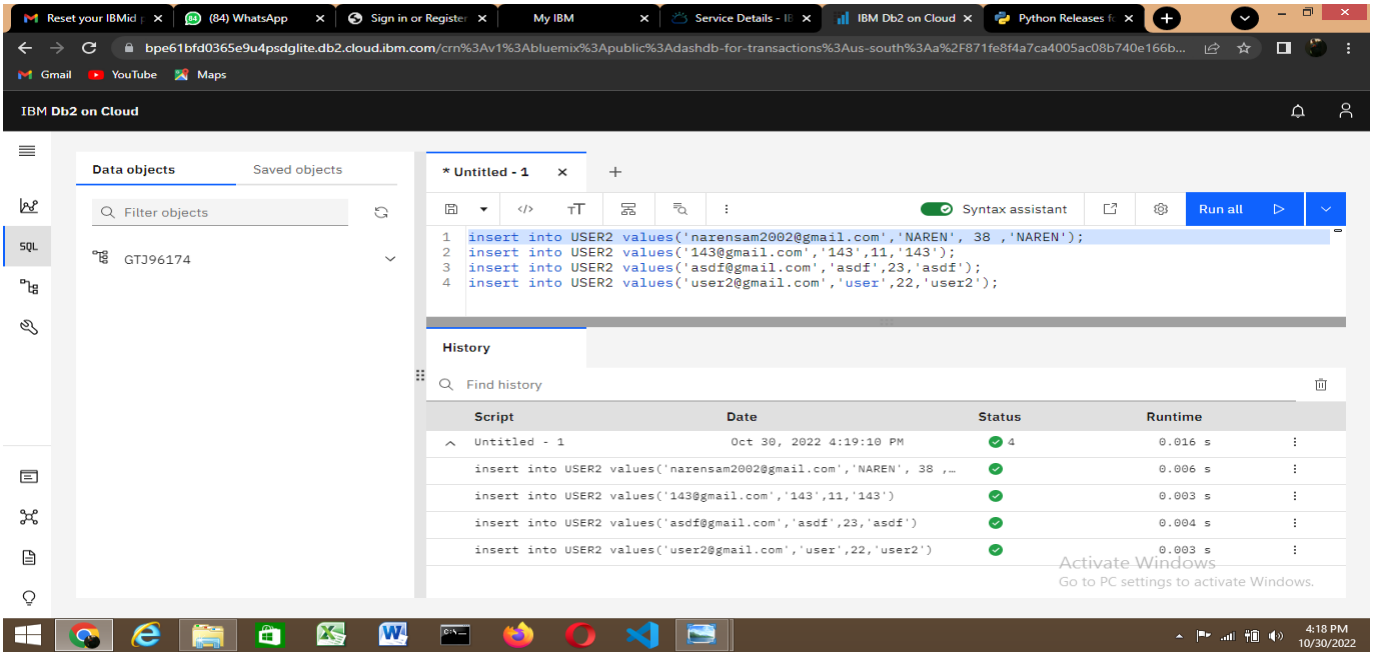
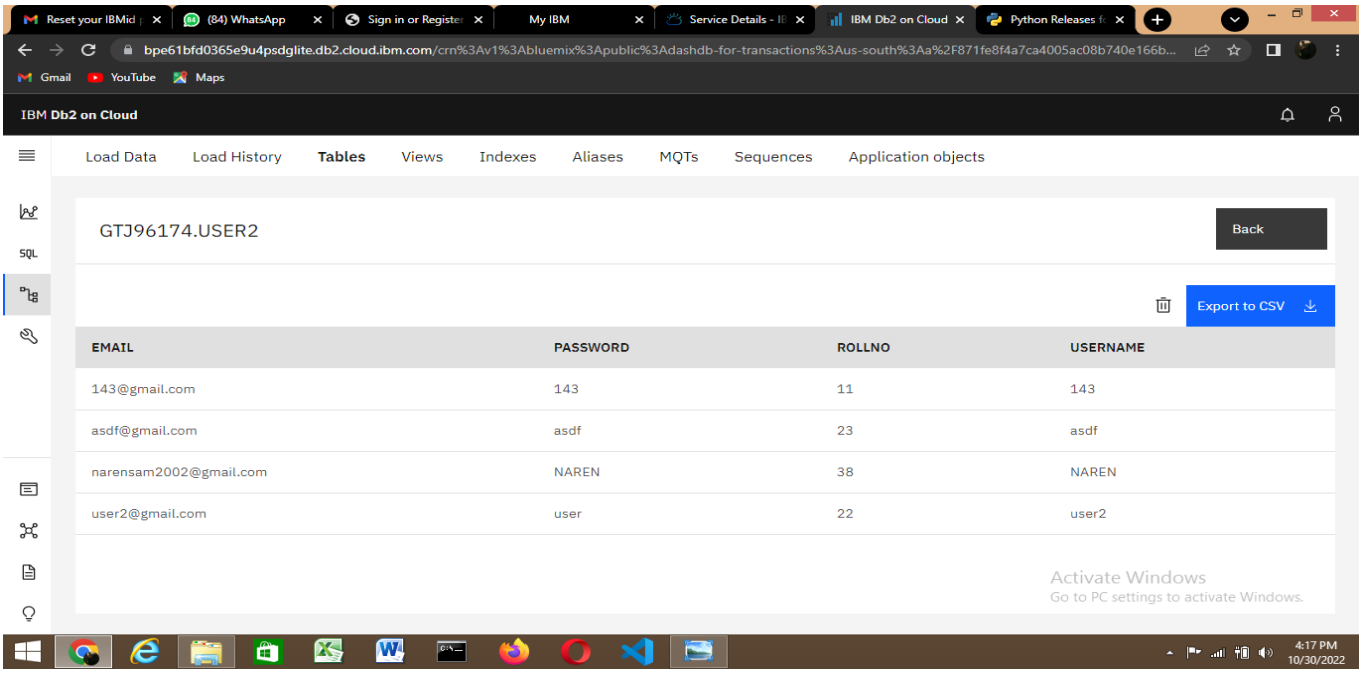
Team ID	PNT2022TMID27815

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

TABLE CREATION:

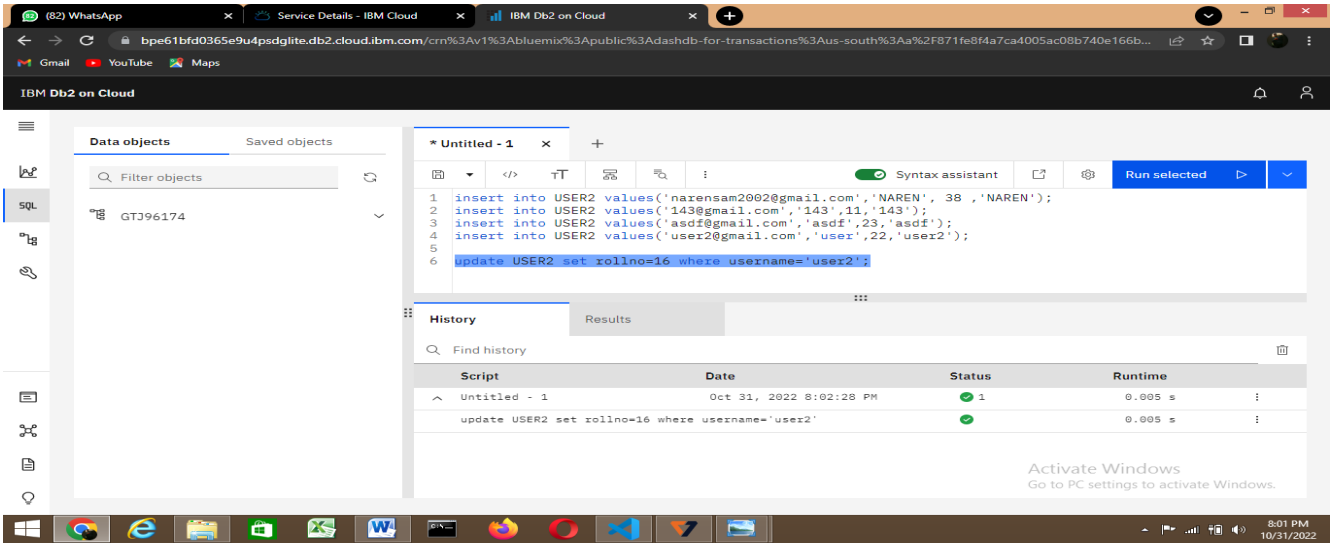


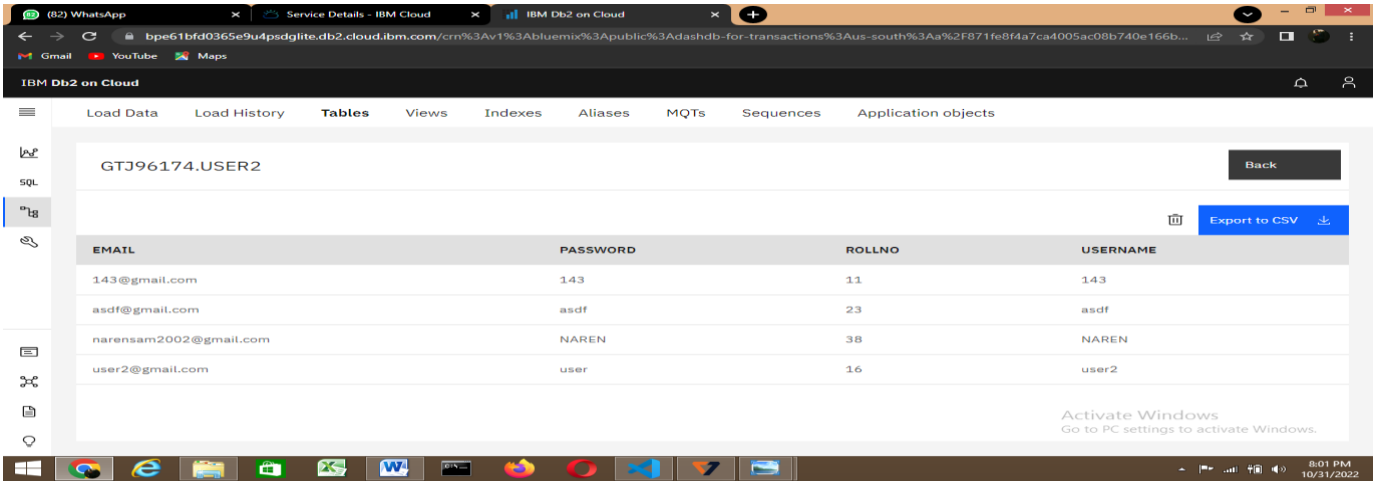




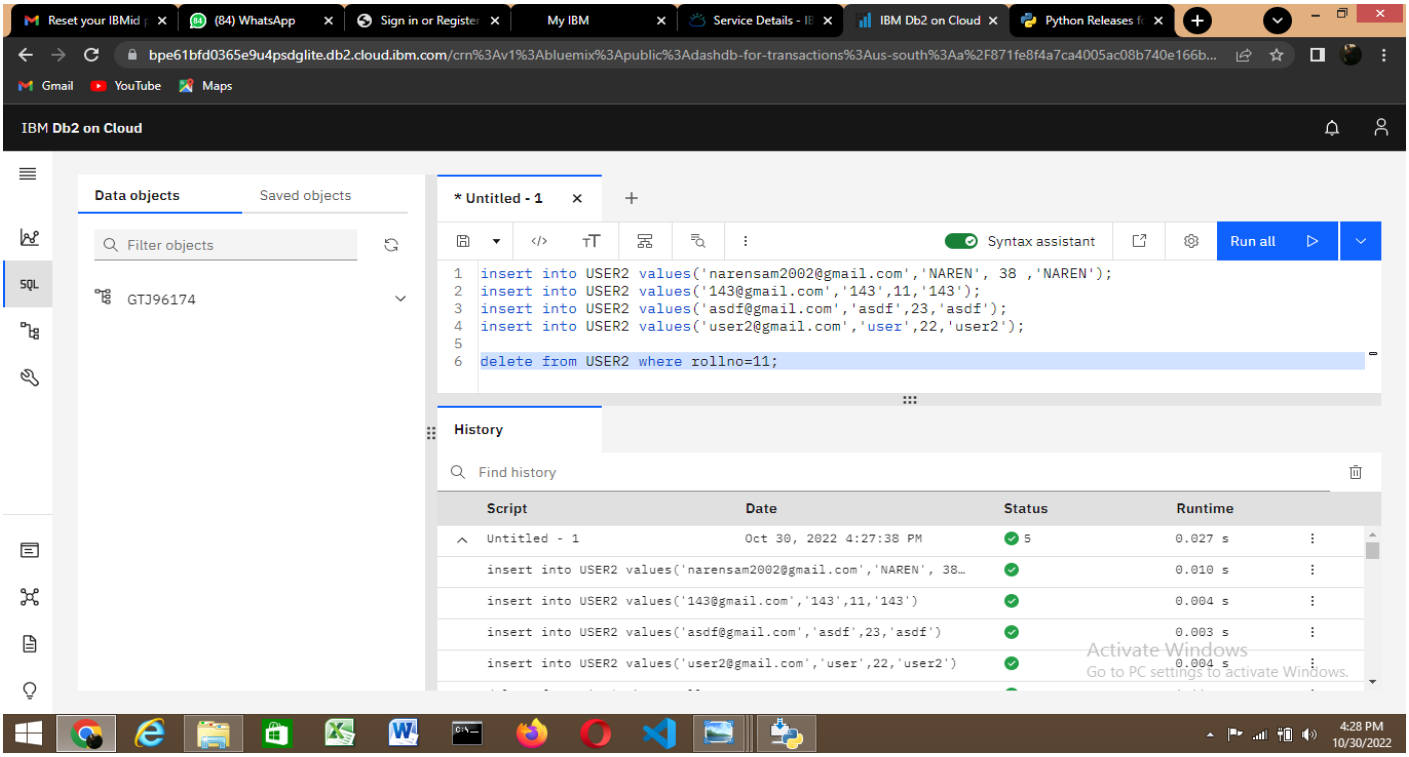
2. PERFORM UPDATE, DELETE QUERIES WITH USER TABLE

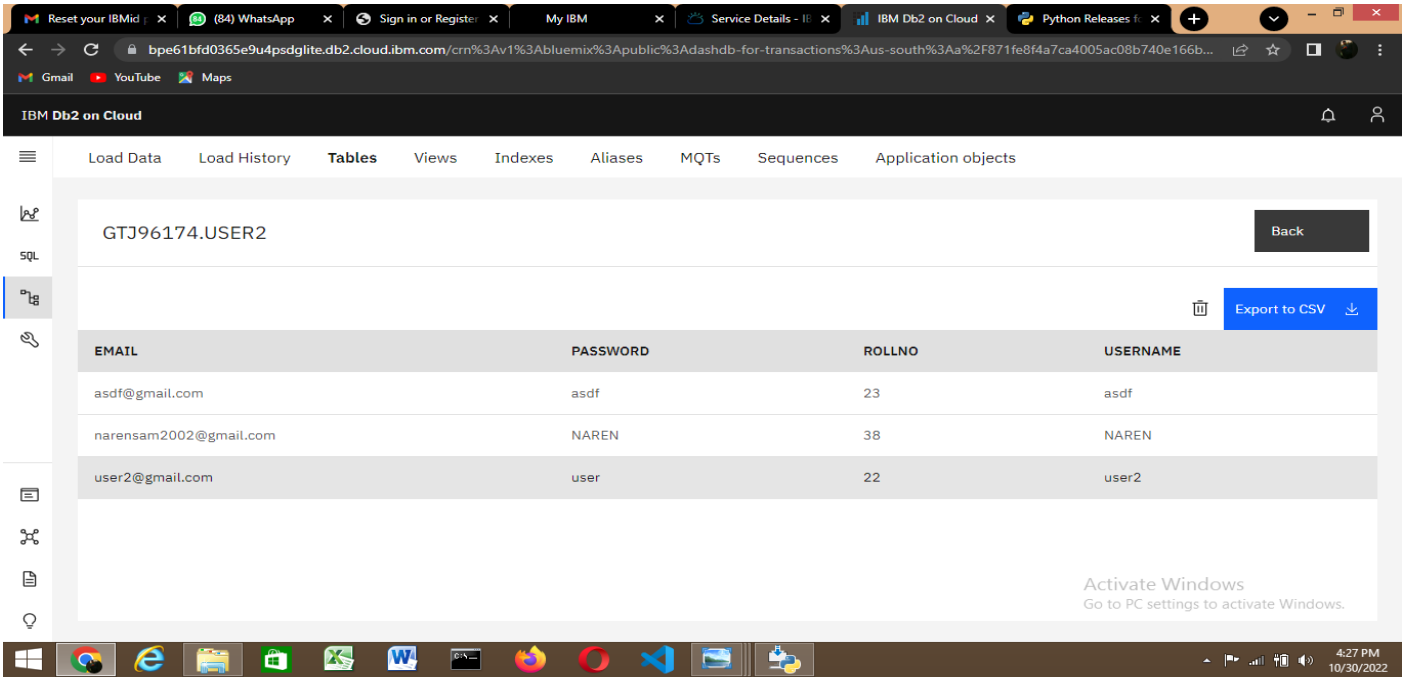
UPDATE QUERY:





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=19af6446-6171-4641-8aba-
9dcff8e1b6ff.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30699;SECURITY=SSL;SSLServerCertifi
cate=DigiCertGlobalRootCA.crt; UID=gtj96174; PWD=x1ccK9ZPS7Tu763i;", '', '')



@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 USER2 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 USER2 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 USER2 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):-

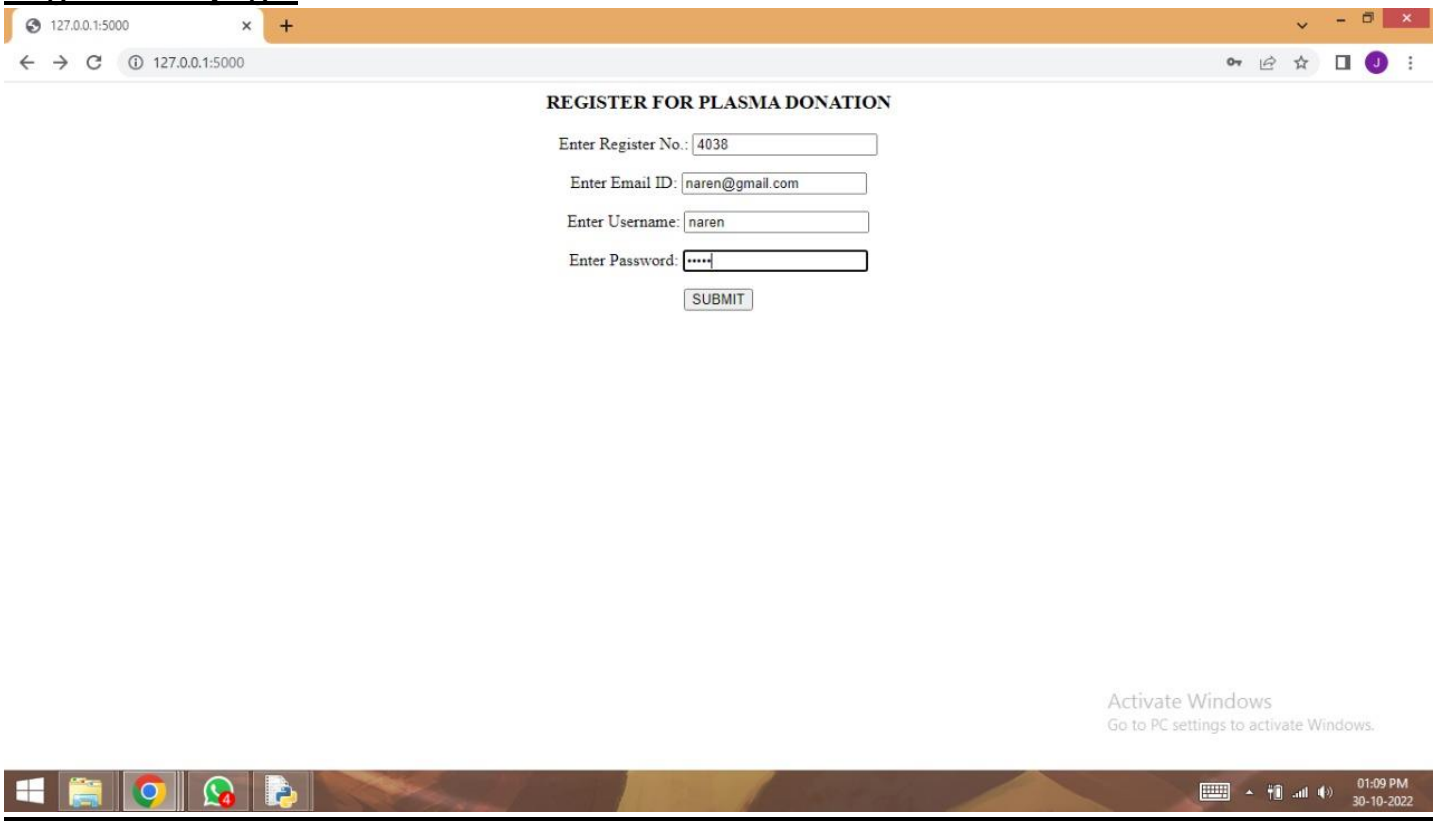
```
<html>
<body>
    <center>
        <h3><b>REGISTRATION FOR PLASMA DONATION</b></h3>
        <form action = "http://localhost:5000/reg2" method ="POST">
            <p>Enter Register No.: <input type = "text" name="rollno"/></p>
            <p>Enter Email ID: <input type = "text" name="email"/></p>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

```
    </html>
```

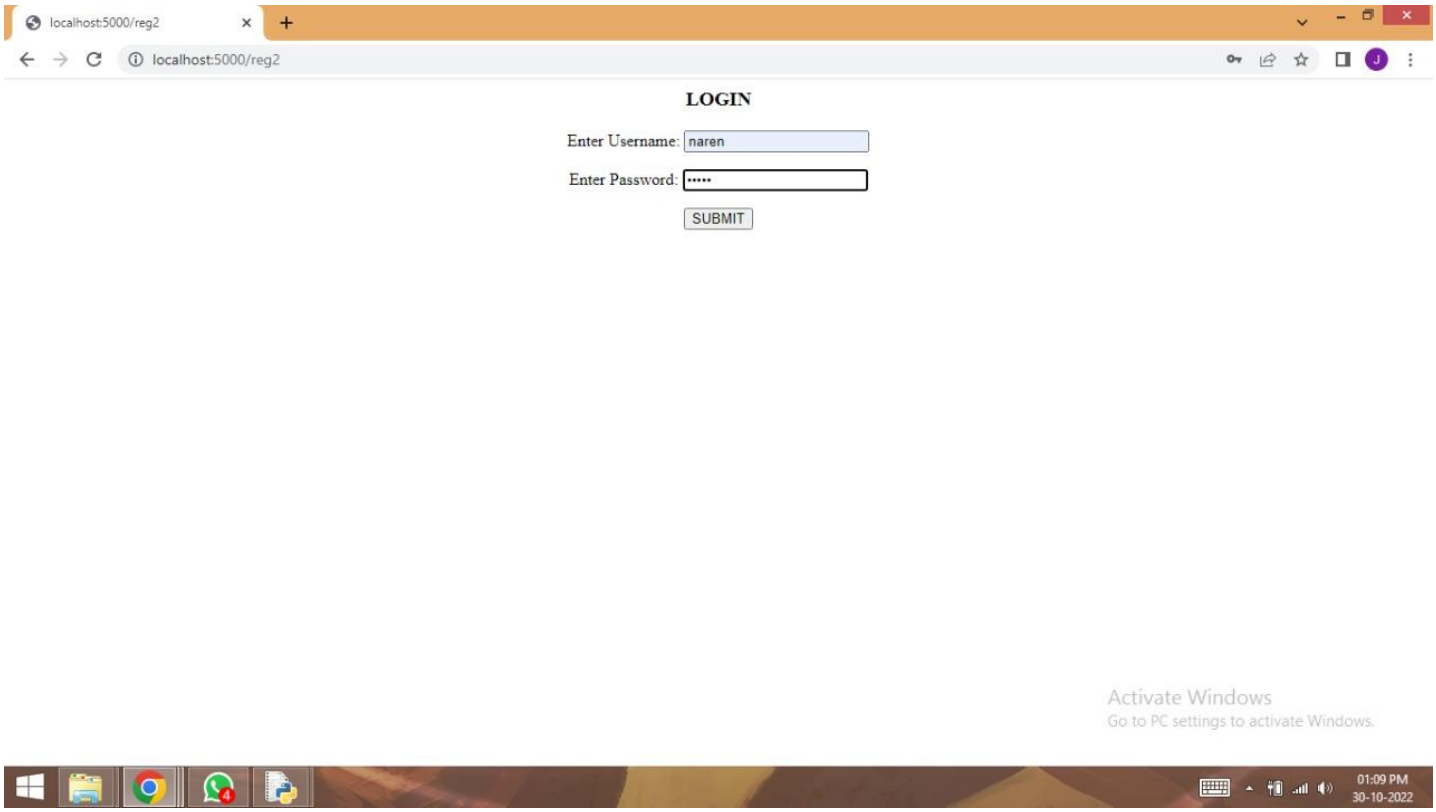
login.html (Login Page):-

```
<html>

<body>
   <center>
      <h3><b>LOGIN</b></h3>
      <form action="http://localhost:5000/login" method="POST">
         <p>Enter Username: <input type="text" name="uname" /></p>
         <p>Enter Password: <input type="password" name="pwd" /></p>
         <p><input type="submit" value="SUBMIT" /></p>
      </form>
   </center>

</body>

</html>
```

Registration page:



Login Page:



Welcome Page:

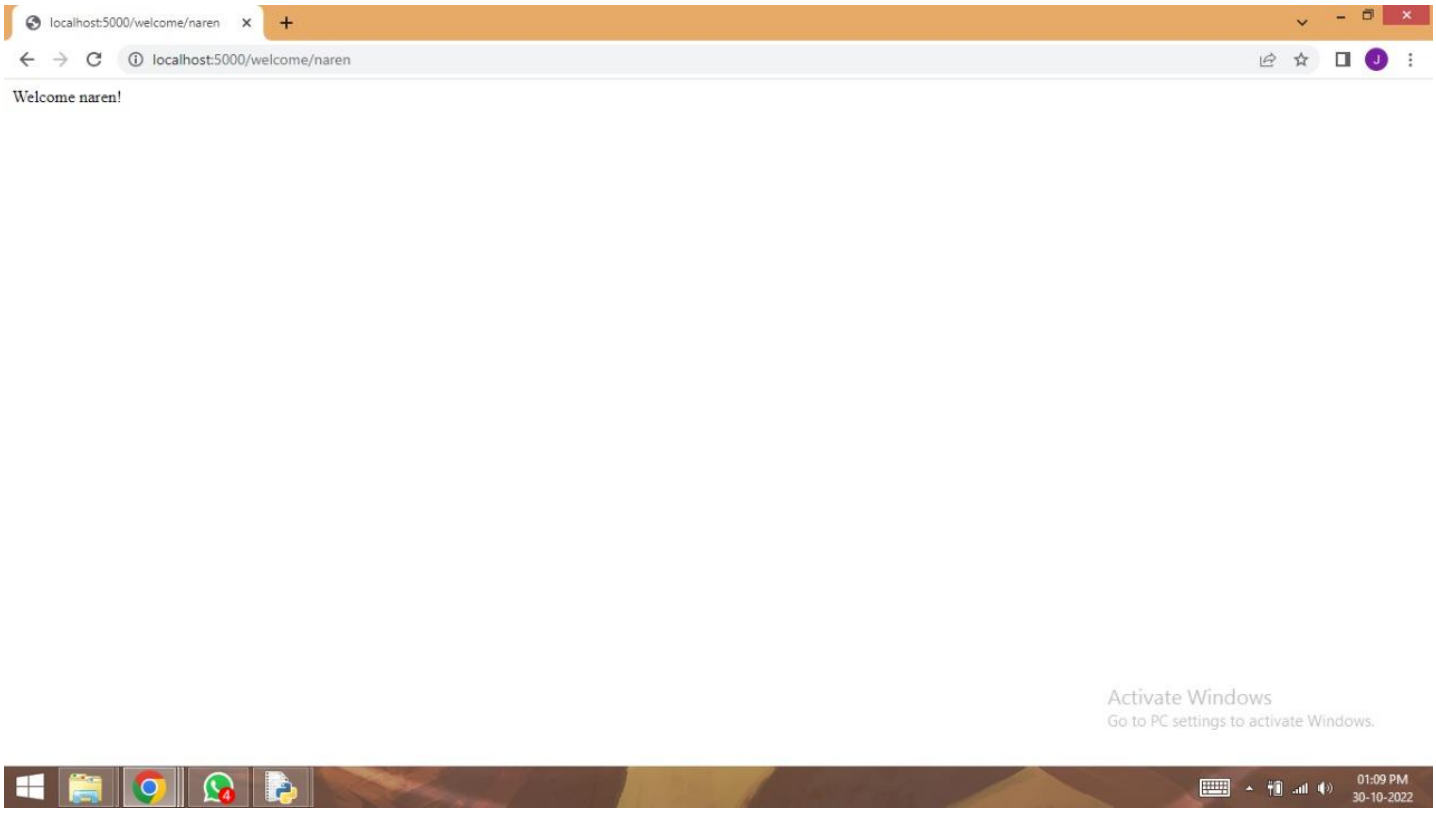
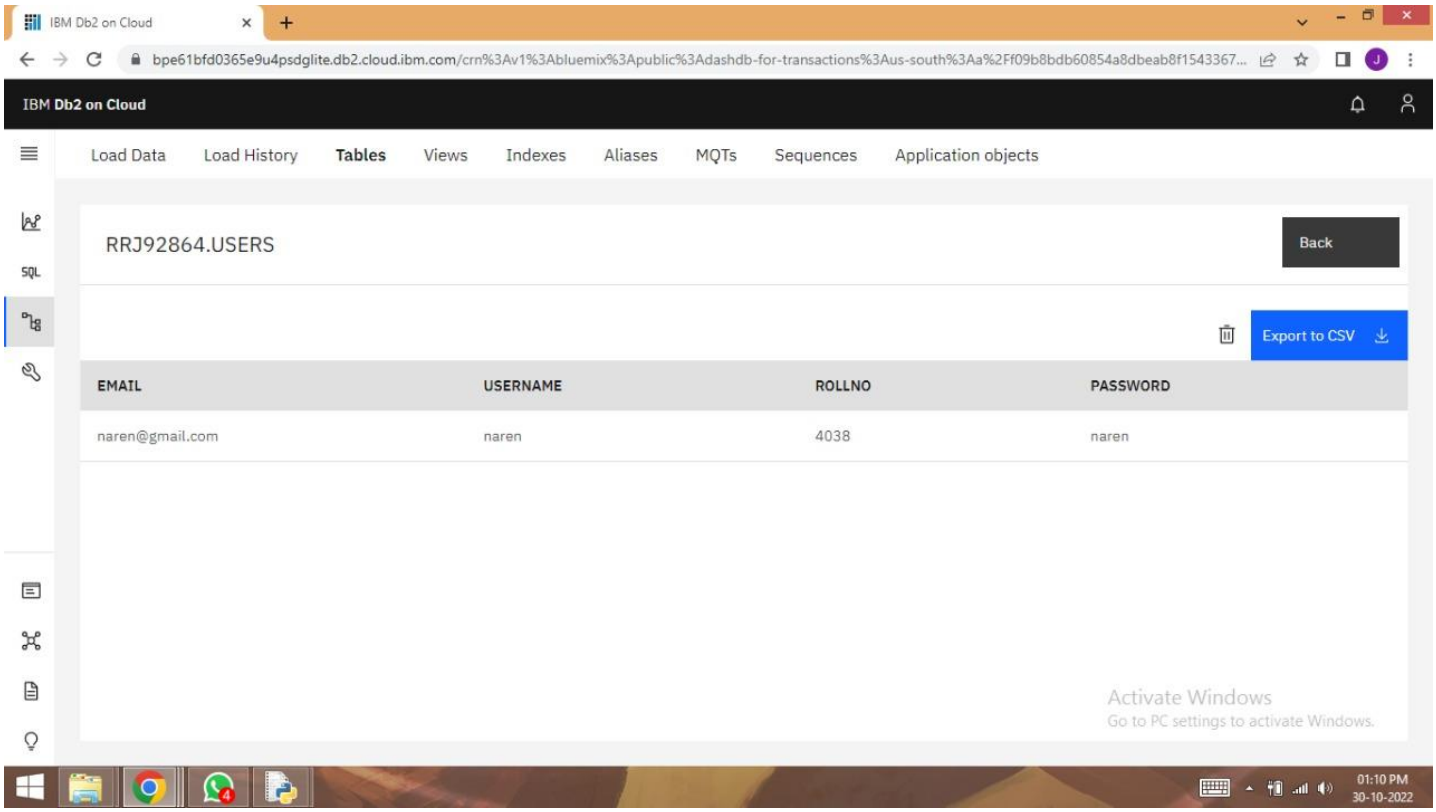


Table Insertion:


IBM Db2 on Cloud
bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2Ff09b8bdb60854a8dbeab8f1543367...
IBM Db2 on Cloud
Load Data
Load History
Tables
Views
Indexes
Aliases
MQTs
Sequences
Application objects
RRJ92864.USERS
Back
Export to CSV
EMAIL
USERNAME
ROLLNO
PASSWORD
naren@gmail.com
naren
4038
naren
Activate Windows
Go to PC settings to activate Windows.
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