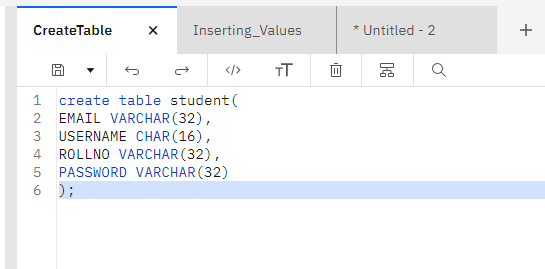
IBM-Assignment2

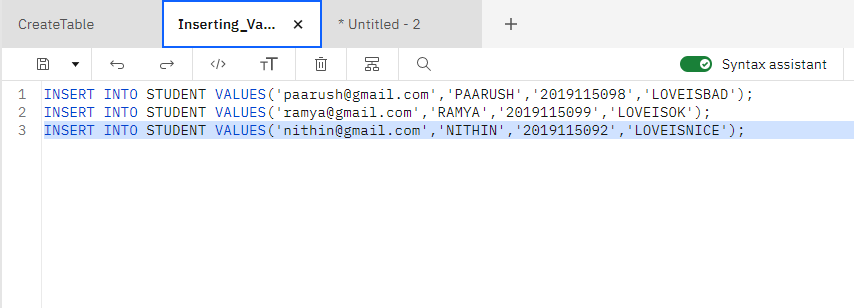
Name:Sidarth Saikumar

ROLL\_no:2019115097

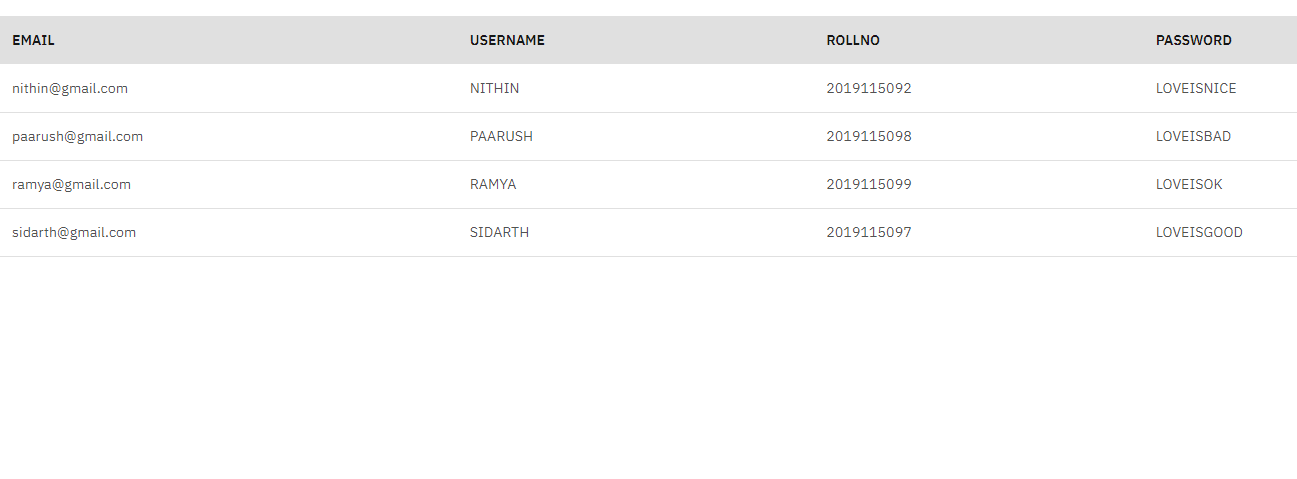
Q1. Create table with email, username, rollno and password



INSERTING VALUES INTO THE TABLE

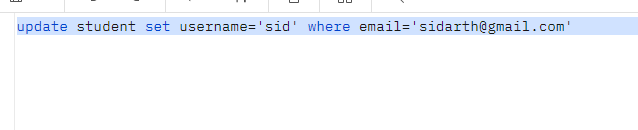


INSERTED VALUES

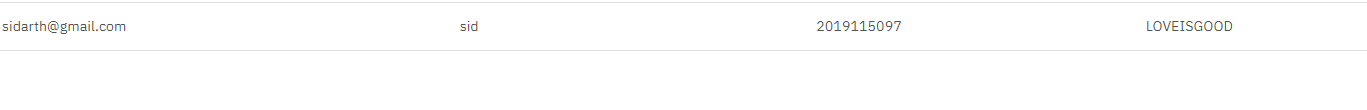


Q2.PERFORM UPDATE, DELETE QUERIES ON TABLE

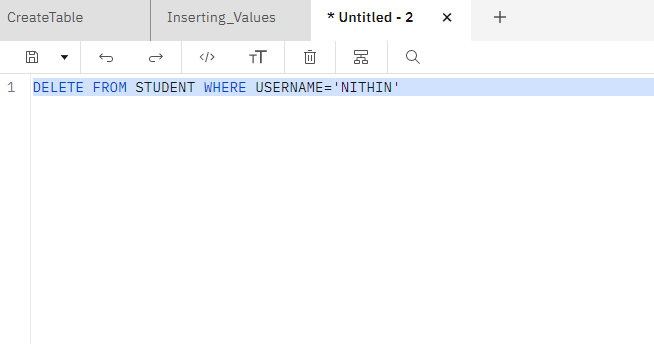
UPDATING



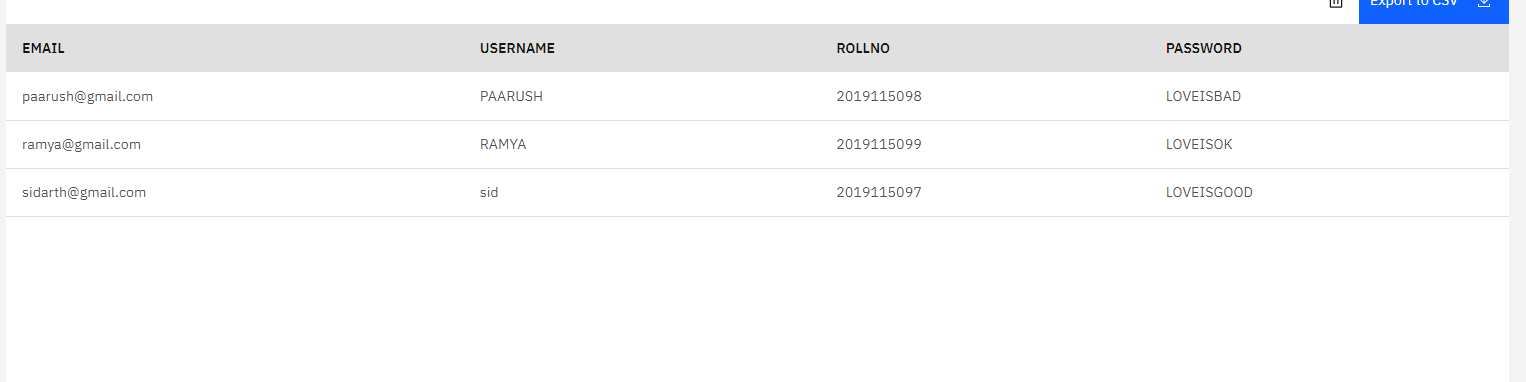
UPDATED



DELETE OPERATION



UPDATED DATABASE



3.Connecting Python to database

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=bludb;HOSTNAME=b70af05b-76e4-4bca-a1f5-23dbb4c6a74e.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32716;Security=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=dgp98488;PWD=T4ZhPsFfVgztgO7H;","","")

4.Create a flask app with registration page, login page and welcome page.

Code:

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=bludb;HOSTNAME=b70af05b-76e4-4bca-a1f5-23dbb4c6a74e.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32716;Security=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=dgp98488;PWD=T4ZhPsFfVgztgO7H;","","")

@app.route('/')

def home():

    return render\_template('register.html')

@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 user 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 render\_template("dashboard.html",username=request.form['username'],msg=msg)

        else:

            msg="Incorrect Username/Password"

    return render\_template('login.html',msg=msg)

@app.route("/register",methods=["GET","POST"])

def register():

    msg=" "

    if request.method=="POST":

        username=request.form['username']

        email=request.form['email']

        rollno=request.form['rollno']

        password=request.form['password']

        sql="SELECT \* FROM user 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-Z]|[0-9])+',username):

            msg="Name must contain only characters and numbers!"

        else:

            insert\_sql="INSERT into user 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 registered successfully"

            return render\_template('login.html',msg=msg)

        return render\_template('register.html',msg=msg)

@app.route('/dashboard')

def dash():

    return render\_template('dashboard.html')

@app.route('/display')

def display():

    print (session["username"],session["id"])

if \_\_name\_\_ == "\_\_main\_\_":

    app.run(debug=True)

templates:

Dashboard.html

<!doctype html>

<html>

    <head>

        <title>Dashboard</title>

    </head>

    <body>

        <script>

            if("{{msg}}"!="")

            {

        window.alert("{{msg}}")}

            </script>

       Welcome to the dashboard {{username}} !!

    </body>

</html>

Login.html

<!doctype html>

<html>

    <head>

        <title>Login Page</title>

    </head>

    <body>

        <script>

            if("{{msg}}"!="")

            {

        window.alert("{{msg}}")}

        </script>

        <form action="/login" method="POST">

            <div>

                <div>

                    <label for="username">Username: </label>

                    <input type="text" name="username" id="username" />

                </div>

                <div>

                    <label for="password">Password: </label>

                    <input type="password" name="password" id="password" />

                </div>

                <div>

                    <input type="submit" value="Submit" />

                </div>

            </div>

        </form>

    </body>

</html>

Register.html

<!doctype html>

<html>

    <head>

        <title>Registeration Page</title>

    </head>

    <body>

        <script>

           if("{{msg}}"!="")

            {

        window.alert("{{msg}}")}

            </script>

        <form action="/register" method="POST">

            <div>

                <div>

                    <label for="username">Username: </label>

                    <input type="text" name="username" id="username" />

                </div>

                <div>

                    <label for="rollno">Roll Number: </label>

                    <input type="number" name="rollno" id="rollno" />

                </div>

                <div>

                    <label for="email">Email: </label>

                    <input type="email" name="email" id="email" />

                </div>

                <div>

                    <label for="password">Password: </label>

                    <input type="password" name="password" id="password" />

                </div>

                <div>

                    <input type="submit" value="Submit" />

                </div>

            </div>

        </form>

    </body>

</html>

OUTPUT

