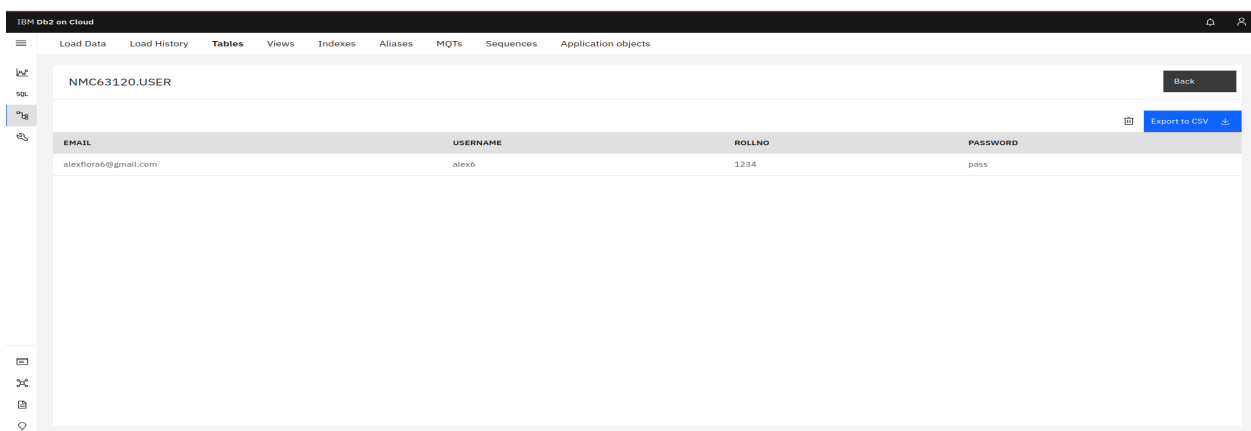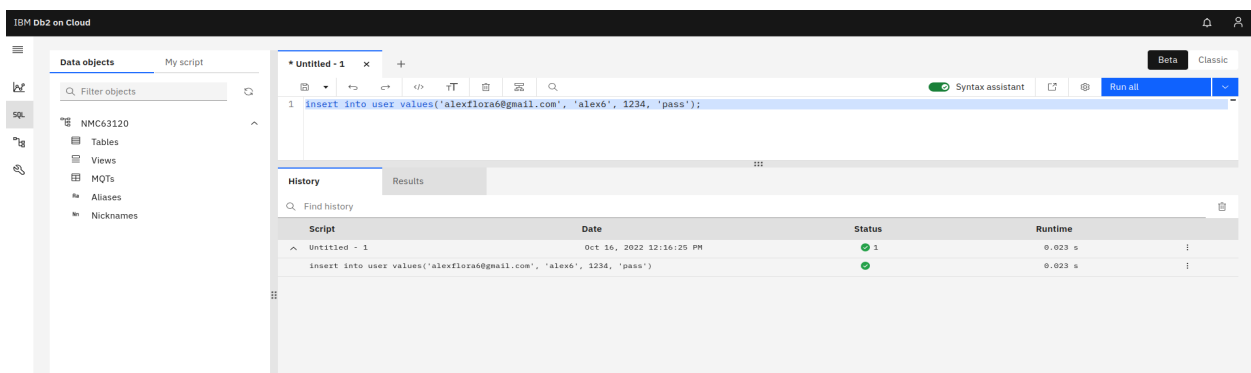# Assignment -2

Date	12 October 2022
Student Name	Guruharan S
Project Name	Project -Skill and Job recommender application.

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

A table named 'User' has been created in DB2.

2. **Perform UPDATE, DELETE Queries with the User table**

Performing insert operation on DB2

Values Inserted!

Updating Values in the user table

Values are updated in the table.

Deleting a row

Row deleted!

Program:

first.py

```python
from flask import Flask,render_template,request,redirect,url_for,session, flash

import ibm_db

import re


app=Flask(__name__)


app.secret_key='a'


conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=2f3279a5-73d1-4859-88f0-a6c3e6b4b907.c3
n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=30756;Security=SSL;SSLServerCert
ificate=DigiCertGlobalRootCA.crt;UID=nmc63120;PWD=BC9ub7wWLk2Yb8fM;","","")


@app.route('/')
def home():
    return render_template('index.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 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)
```

```python
        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',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']

        password=request.form['password']

        sql="SELECT * FROM users WHERE username=?"

        stmt = ibm_db.prepare(conn,sql)

        ibm_db.bind_param(stmt,1,username)

        data = ibm_db.execute(stmt)

        if data != True:

            msg="Username Already exists! Please Login"

            print(data)

        elif not re.match(r'[^@]+@[^@]+\.[^@]+',email):

            msg="Invalid email address"
```

```python
        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 logged in! from /register'
            return redirect(url_for('dash', username=username))
    elif request.method=='POST':
        msg='Please fill out the form'
    return render_template('index.html',msg=msg)


@app.route('/dashboard')
def dash():
    return render_template('dashboard.html',username=request.args.get('username'))


@app.route('/apply',methods=['GET','POST'])
def apply():
    msg=''
    if request.method=='POST':
        username=request.form['username']
        email=request.form['email']

        qualification=request.form['qualification']
        skills=request.form['skills']
        jobs=request.form['s']
        sql="SELECT * FROM users WHERE username=?"
```

```python
        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="There is only one job position! for you"

            return render_template('apply.html',msg=msg)


        insert_sql="INSERT INTO job 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,qualification)

        ibm_db.bind_param(prep_stmt,4,skills)

        ibm_db.bind_param(prep_stmt,5,jobs)

        ibm_db.execute(prep_stmt)

        msg="You have successfully applied for job position"

        session['Loggedin']=True

        TEXT = "Hello, a new application for job position"+jobs+"is requested"


    elif request.method=='POST':

        msg="Please fill out the form !"

    return render_template('apply.html',msg=msg)


@app.route('/display')

def display():

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


    cursor=mysql.connection.cursor()
```

```python
        cursor.execute('SELECT * FROM job WHERE userid=%s',(session['id'],))
        account=cursor.fetchone()
        print("accountdisplay",account)
        return render_template('display.html',account=account)


@app.route('/logout')
def logout():
    session.pop('Loggedin',None)
    session.pop('id',None)
    session.pop('username',None)
    return render_template('home.html')


if __name__ == '__main__':
    app.run(debug=True)
```

index.html

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <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>Document</title>
    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.css"
integrity="sha384-Zenh87qX5JnK2Jl0vWa8Ck2rdkQ2Bzep5IDxbcnCeuOxjzrPF/et3URy9Bv1W
TRi" crossorigin="anonymous">

    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.min.js"
integrity="sha384-IDwe1+LCz02ROU9k972gdyvl+AESN10+x7tBKgc9I5HFtuNz0wWnPclzo6p9v
xnk" crossorigin="anonymous"></script>
```

```html
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.bundle.min.js" integrity="sha384-OERcA2EqjJCMA+/3y+gxIOqMEjwtxJY7qPCqsdltbNJuaOe923+mo//f6V8Qbsw3" crossorigin="anonymous"></script>
<style>

.buttons{
display:flex;
color:blue;
width:20%;
justify-content:space-between;
margin-left:40%;
}

.header{
height:10vw;
background-color:goldenrod;
margin-bottom:20px;
}
.header>h1{
text-align:center;
padding-top:55px;
}

.form{
width:75%;
margin:0 auto;
}

.inputs{
display:flex;
Flex-direction:column;
```

```css
}

.labels{
display:flex;
flex-direction:column;
align-items:flex-end;
}

.submit{
background: transparent;
border: 1px solid blueviolet;
border-radius: 10px;
width:80px;
}

.buttons a:hover{
transition:all .3s;
background:blueviolet;
color:white;
}
.submit:hover{
transition:all .3s;
background:blueviolet;
color:white;
}
.buttons a{
background: transparent;
border: 1px solid blueviolet;
border-radius: 10px;
text-decoration:none;
```

```
    cursor:pointer;

    width:80px;

    text-align:center;

    color:black;

    }

    .alert{

    text-align:center;

    align-items:center;

    margin-left:auto;

    margin-right:auto;

    }

    </style>

</head>

<body>

<div class="container">


    <div class="header">

    <h1>REGISTER</h1>

    </div>

    <div class="form">

        <form action="http://localhost:5000/register" method="post">

        <div class="row">

        <div class="col-3 labels">

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

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

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


        </div>

        <div class="col-9 inputs">

        <input type="email" name="email" id="email" required><br><br>
```

```html
<input type="text" name="username" id="username" required><br><br>
<input type="password" name="password" id="password" required ><br><br>
</div>
</div>
<div class="buttons">
<input class="submit" type="submit" value="Submit">
<a href="http://localhost:5000/login">Login</a>
</div>
</form>
</div>
<div class="alert">{{msg}}</div>
</div>
</body>
</html>
```

dashboard.html

```html
<html>
<head>
<title>LOGIN</title>
</head>
<body>
 <div class="container">
 <h1>Welcome to dashboard, {{username}}</h1>
 </div>
</label>
</form>
</body>
</html>
```

login.html

```html
<html>
<head>
<title>LOGIN</title>
</head>
<body>
 <form action="http://localhost:5000/login" method="post">
   <label for="username">Username :</label><br>
   <input type="text" name="username" id="username"><br><br>
   <label for="password">Password :</label><br>
   <input type="password" name="password" id="password" ><br><br>
   <input type="submit" value="Submit">
  </form>
</label>
</form>
</body>
</html>
```

OUTPUT

REGISTER

Email :   guru10@fdbghdfb.com

Username :   GURUHARAN

Password :   •••••••

Submit   Login

Username :

GURUHARAN

Password :

••••••••

Submit

Welcome to dashboard, GURUHARAN

USERNAME	EMAIL	PASSWORD
GOWTHAM	gowtham6@gmail.com	12345678
NANDY	nandy07@gmail.com	123456789
NANDY	gowtham6@gmail.com	12345678
NANDY	nandy07@gmail.com	123456789
hello	alexflora6@gmail.com	alex
hello	ALEXDOOMER@jbj.com	HELLO