Assignment -2

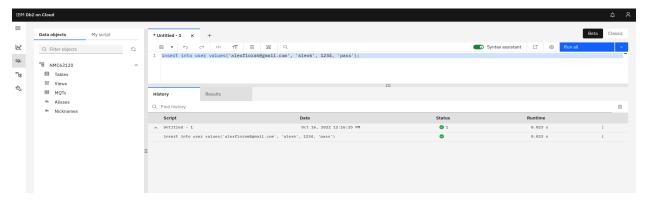
Date	12 October 2022
Student Name	Nandhini V
Project Name	Project -Skill and Job recommender application.

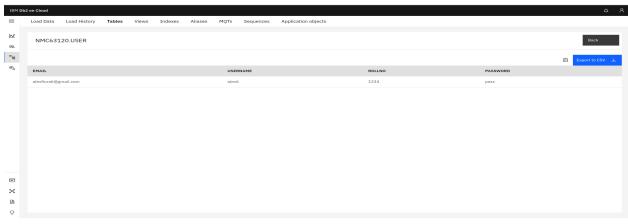
 Create a User table with a user with email, username, roll number, and password.

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

2. Perform UPDATE, DELETE Queries with the User table

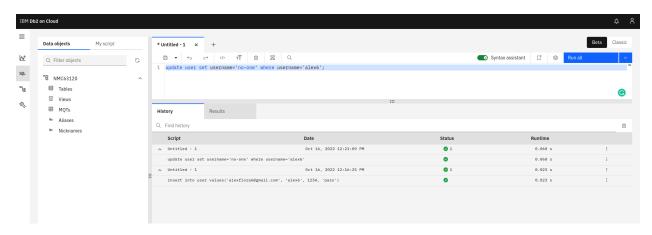
Performing insert operation on DB2

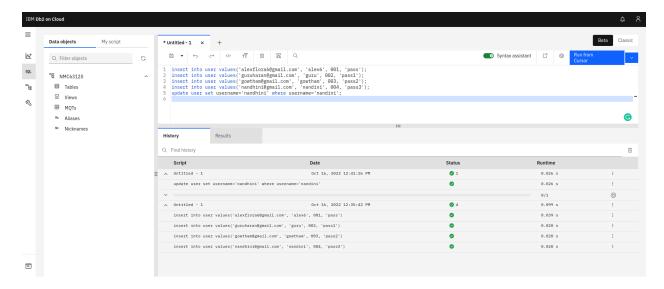


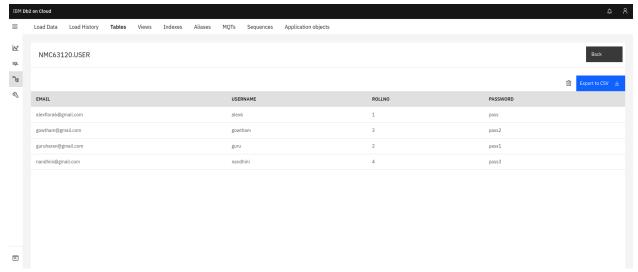


Values Inserted!

Updating Values in the user table

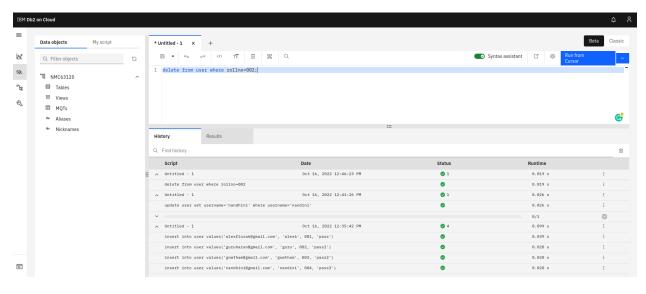


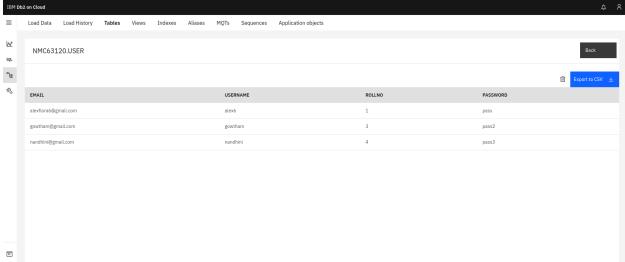




Values are updated in the table.

Deleting a row





Row deleted!

3. Connect python code to db2

Program:

```
first.py
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)
```

```
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"
```

```
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=?"
```

```
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()
```

```
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
<!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>
  k 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"</pre>
integrity="sha384-IDwe1+LCz02ROU9k972gdyvI+AESN10+x7tBKgc9I5HFtuNz0wWnPclzo6p9v
xnk" crossorigin="anonymous"></script>
```

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.bundle.min.js"
integrity="sha384-OERcA2EqjJCMA+/3y+gxIOqMEjwtxJY7qPCqsdltbNJuaOe923+mo//f6V8Qb
sw3" 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;
```

```
}
 .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>
     <label for="password">Password :</label><br><br>
     </div>
     <div class="col-9 inputs">
    <input type="email" name="email" id="email" required><br><br>
```

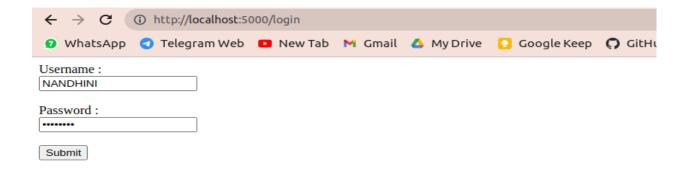
```
<input type="text" name="username" id="username" required><br>
    <input type="password" name="password" id="password" required ><br><br>
    </div>
    </div>
    <div class="buttons">
    <input class="submit" type="submit" value="Submit">
    <a href="http://localhost:5000/login">Login</a>
    </div>
    </form>
  </div>
  <div class="alert">{{msg}}</div>
</div>
</body>
</html>
dashboard.html
<html>
<head>
<title>LOGIN</title>
</head>
<body>
<div class="container">
<h1>Welcome to dashboard, {{username}}</h1>
</div>
</label>
</form>
</body>
</html>
```

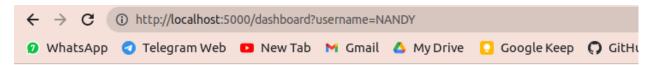
login.html

```
<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







Welcome to dashboard, NANDY

NMC63120.USERS

USERNAME		EMAIL	PASSWORD
alex	alex	alexflora6@gmail.com	alex