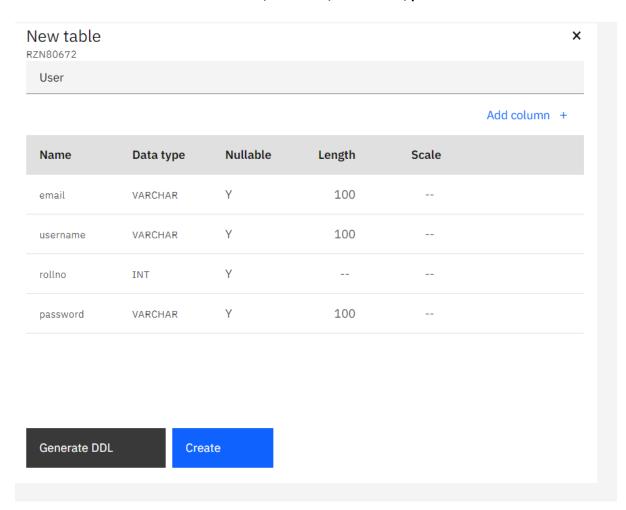
Student Name	NARMATHA K		
Student Roll Number	917719IT063		

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



## **INSERT QUERY:**

**INSERT INTO User** 

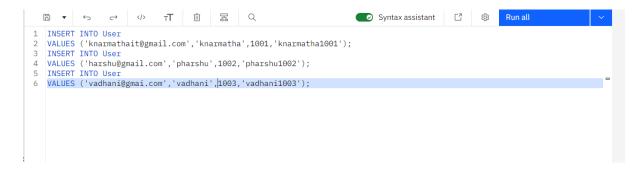
VALUES ('knarmathait@gmail.com','knarmatha',1001,'knarmatha1001');

**INSERT INTO User** 

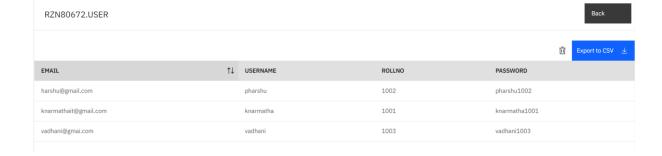
VALUES ('harshu@gmail.com','pharshu',1002,'pharshu1002');

**INSERT INTO User** 

## VALUES ('vadhani@gmai.com','vadhani',1003,'vadhani1003');

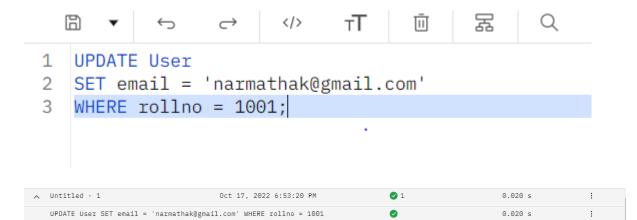


	Script	Date	Status	Runtime	
^	Untitled - 1	Oct 17, 2022 6:40:42 PM	<b>2</b> 2	0.040 s	:
	INSERT INTO User VALUES ('harshu@gmail	.com','pharshu',1002,'pharshu1002')	<b>②</b>	0.020 s	:
	INSERT INTO User VALUES ('vadhani@gmai	.com','vadhani',1003,'vadhani1003')	<b>②</b>	0.020 s	:
^	Untitled - 1	Oct 17, 2022 6:35:15 PM	<b>②</b> 1	0.020 s	:
	INSERT INTO User VALUES ('knarmathait@g	gmail.com','knarmatha',1001,'knarmatha	•	0.020 s	:



# 2. Perform UPDATE, DELETE Queries with user table

#### UPDATE:



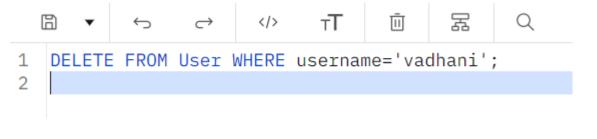
#### **BATCH - B8-2A4E**

#### Assignment - 2

#### 19IT063 NARMATHA.K

EMAIL	USERNAME	ROLLNO	PASSWORD
harshu@gmail.com	pharshu	1002	pharshu1002
narmathak@gmail.com	knarmatha	1001	knarmatha1001
vadhani@gmai.com	vadhani	1003	vadhani1003

#### **DELETE:**



	Script	Date	Status	Runtime	
^	Untitled - 1	Oct 17, 2022 6:57:37 PM	<b>⊘</b> 1	0.009 s	:
	DELETE FROM User WHERE username='vadhani'		<b>②</b>	0.009 s	. :

EMAIL	USERNAME	ROLLNO	PASSWORD
harshu@gmail.com	pharshu	1002	pharshu1002
narmathak@gmail.com	knarmatha	1001	knarmatha1001

## 3. Connect python code to db2.

# -\*- coding: utf-8 -\*-

.....

@author: NARMATHA

.....

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;SSLS erverCertificate=DigiCertGlobalRootCA.crt;UID=rzn80672;PWD=TG48qREyM8hFUOYV",")

```
@app.route('/')
def home():
  return render_template('home.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', msg=msg)
    else:
      msg='Incorrect username/password'
      return render_template('login.html', msg=msg)
@app.route('/register',method=['GET','POST'])
def register():
  if request.method=='POST':
    username=request.form['username']
    email=request.form['email']
    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-z0-9]+',username):
      msg="Name must contain 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,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 registered "
  elif request.method=="POST":
      msg="Please fill out the form"
      return render_template('register.html', msg=msg)
@app.route('/dashboard')
def dash():
  return render_template('dashboard.html')
@app.route('/apply',methods=['GET','POST'])
def app():
  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']
    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's only 1 job position"
      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"
    session['loggedin'] =True
    TEXT="Hello user, a new application for job position"+jobs+"isrequested"
  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(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

```
# -*- coding: utf-8 -*-
"""

@author: NARMATHA

"""

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;SSLS

erverCertificate=DigiCertGlobalRootCA.crt;UID=rzn80672;PWD=TG48qREyM8hFUOYV",",")

@app.route('/')

app.py

```
@app.route('/login', methods =['GET', 'POST'])
def login():
  msg = "
  if request.method == 'POST' and 'username' in request.form and 'password' in request.form:
    username = request.form['username']
    password = request.form['password']
    cursor=mysql.connection.cursor()
    cursor.execute('SELECT * FROM accounts WHERE username = % s AND password = % s',
(username, password, ))
    account = cursor.fetchone()
    if account:
      session['loggedin'] = True
      session['id'] = account['id']
      session['username'] = account['username']
      msg = 'Logged in successfully !'
      return render_template('index.html', msg = msg)
    else:
      msg = 'Incorrect username / password !'
  return render_template('login.html', msg = msg)
@app.route('/logout')
def logout():
  session.pop('loggedin', None)
  session.pop('id', None)
  session.pop('username', None)
 return redirect(url_for('login'))
```

```
@app.route('/register', methods =['GET', 'POST'])
def register():
  msg = "
  if request.method == 'POST' and 'username' in request.form and 'password' in request.form and
'email' in request.form :
    username = request.form['username']
    password = request.form['password']
    email = request.form['email']
    cursor=mysql.connection.cursor()
    cursor.execute('SELECT * FROM accounts WHERE username = % s', (username, ))
    account = cursor.fetchone()
    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 characters and numbers !'
    elif not username or not password or not email:
      msg = 'Please fill out the form!'
    else:
      cursor.execute('INSERT INTO accounts VALUES (NULL, % s, % s, % s, % s)', (username, password,
email, ))
      ibm_db.execute()
      msg = 'You have successfully registered!'
  elif request.method == 'POST':
```

```
msg = 'Please fill out the form !'
return render_template('register.html', msg = msg)
```

## login.html

```
<html>
  <head>
    <meta charset="UTF-8">
    <title> Login </title>
    <link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
  </head>
  <body></br></br></br>
    <div align="center">
     <div align="center" class="border">
      <div class="header">
        <h1 class="word">Login</h1>
      </div></br></br>
      <h2 class="word">
        <form action="{{ url_for('login') }}" method="post">
         <div class="msg">{{ msg }}</div>
          <input id="username" name="username" type="text" placeholder="Enter Your
Username" class="textbox"/></br>
          <input id="password" name="password" type="password" placeholder="Enter Your
Password" class="textbox"/></br></br>
          <input type="submit" class="btn" value="Sign In"></br>
        </form>
```

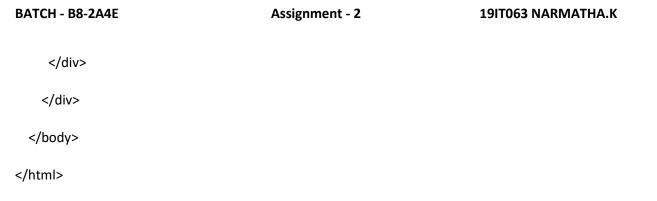
```
BATCH - B8-2A4E
                                Assignment - 2
                                                           19IT063 NARMATHA.K
     </h2>
    Don't have an account? <a class="bottom" href="{{url_for('register')}}">
Sign Up here</a>
    </div>
   </div>
 </body>
</html>
                                  Login
                           Enter Your Username
                           Enter Your Password
```

Sign In

Dont't have an account? Sign Up here

register.html:

```
<html>
 <head>
    <meta charset="UTF-8">
    <title> Register </title>
    <link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
 </head>
 <body></br></br></br>
    <div align="center">
     <div align="center" class="border">
      <div class="header">
        <h1 class="word">Register</h1>
      </div></br></br>
      <h2 class="word">
        <form action="{{ url_for('register') }}" method="post">
         <div class="msg">{{ msg }}</div>
          <input id="username" name="username" type="text" placeholder="Enter Your
Username" class="textbox"/></br>
          <input id="password" name="password" type="password" placeholder="Enter Your
Password" class="textbox"/></br>
          <input id="email" name="email" type="text" placeholder="Enter Your Email ID"
class="textbox"/></br></br>
          <input type="submit" class="btn" value="Sign Up"></br>
        </form>
      </h2>
      Already have an account? <a class="bottom" href="{{url_for('login')}}">
Sign In here</a>
```



# Register Enter Your Username Enter Your Password Enter Your Email ID Sign Up Already have an account? Sign In here

# index.html

<html>

<head>

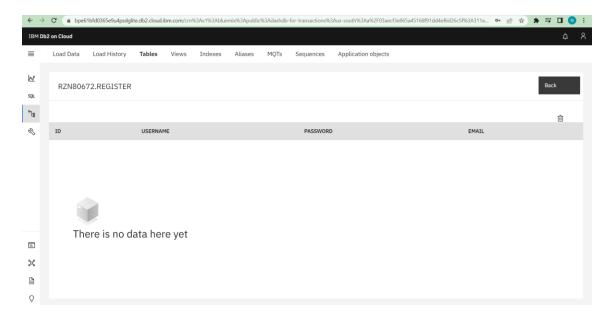
<meta charset="UTF-8">

```
<title> Index </title>
    <link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
  </head>
  <body></br></br></br>
    <div align="center">
     <div align="center" class="border">
      <div class="header">
        <h1 class="word">Index</h1>
      </div></br></br>
        <h1 class="bottom">
           Hi {{session.username}}!!</br></br> Welcome to the index page...
        </h1></br></br>
        <a href="{{ url_for('logout') }}" class="btn">Logout</a>
     </div>
    </div>
  </body>
</html>
style.css:
 .header{
        padding: 5px 120px;
        width: 150px;
        height: 70px;
        background-color: #236B8E;
      }
```

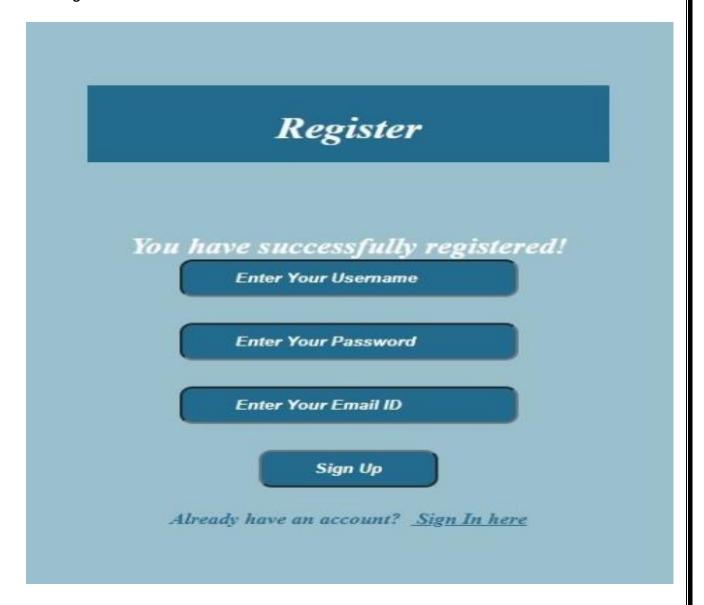
```
. border \{\\
  padding: 80px 50px;
  width: 400px;
  height: 450px;
  border: 1px solid #236B8E;
  border-radius: 0px;
  background-color: #9AC0CD;
}
.btn \, \{
  padding: 10px 40px;
  background-color: #236B8E;
  color: #FFFFFF;
  font-style: oblique;
  font-weight: bold;
  border-radius: 10px;
}
. textbox \{
  padding: 10px 40px;
  background-color: #236B8E;
  text-color: #FFFFF;
  border-radius: 10px;
}
```

```
::placeholder {
  color: #FFFFF;
  opacity: 1;
  font-style: oblique;
  font-weight: bold;
}
.word \{\\
  color: #FFFFF;
  font-style: oblique;
  font-weight: bold;
}
.bottom \{\\
  color: #236B8E;
  font-style: oblique;
  font-weight: bold;
}
```

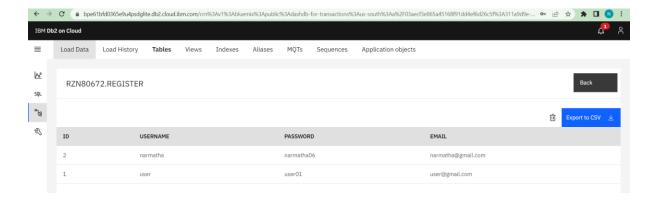
**Before registration:** 



## After registration:



## db2:



# Index page after successful logging:

