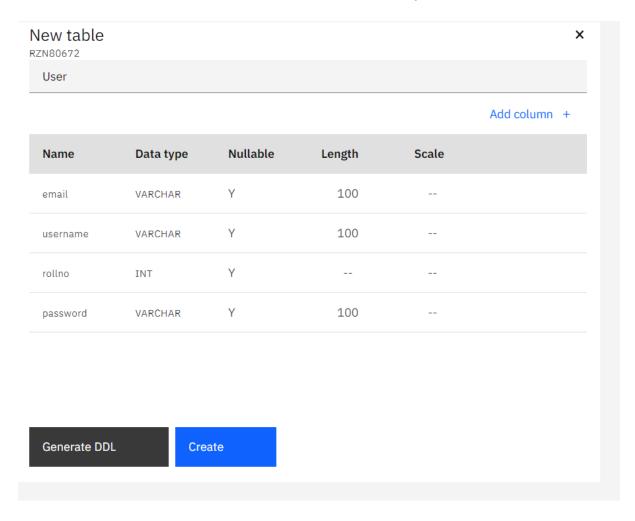
1. Create User table with user with email, username, roll number, password.



INSERT QUERY:

INSERT INTO User

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

INSERT INTO User

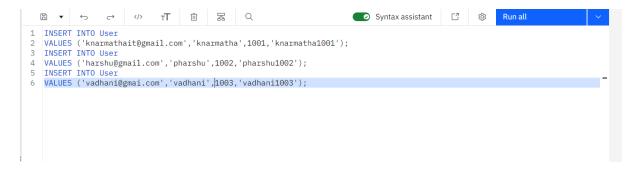
VALUES ('harshu@gmail.com','pharshu',1002,'pharshu1002');

INSERT INTO User

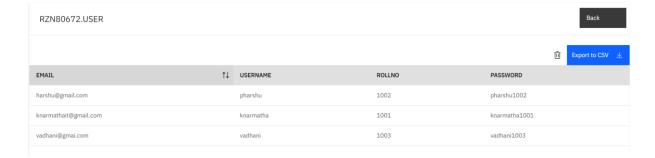
VALUES ('vadhani@gmai.com','vadhani',1003,'vadhani1003');

Assignment - 2

19IT063 NARMATHA.K

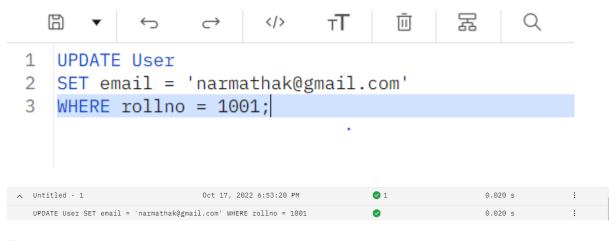


| | Script | Date | Status | Runtime | |
|---|---|--|----------|---------|---|
| ^ | Untitled - 1 | Oct 17, 2022 6:40:42 PM | 2 | 0.040 s | ÷ |
| | INSERT INTO User VALUES ('harshu@gmail | .com','pharshu',1002,'pharshu1002') | Ø | 0.020 s | ÷ |
| | INSERT INTO User VALUES ('vadhani@gmai | .com','vadhani',1003,'vadhani1003')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



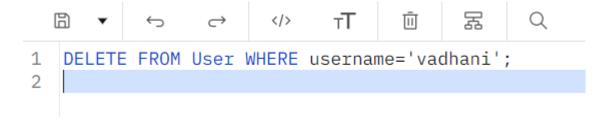
2. Perform UPDATE, DELETE Queries with user table

UPDATE:



| 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 | ② 1 | 0.009 s | : |
| | DELETE FROM User WHERE username='vadha | ni' | • | 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 -*-

111111

@author: NARMATHA

111111

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

```
app.py
```

```
# -*- coding: utf-8 -*-
111111
@author: NARMATHA
111111
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.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)', (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>
      </h2>
      Don't have an account? <a class="bottom" href="{{url_for('register')}}">
Sign Up here</a>
     </div>
```

```
Assignment - 2
                                                       19IT063 NARMATHA.K
   </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>
     </div>
    </div>
 </body>
</html>
```

Register

Enter Your Username

Enter Your Password

Enter Your Email ID

Sign Up

Already have an account? Sign In here

index.html

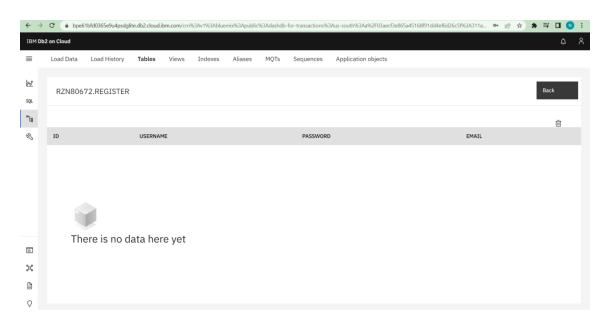
```
<html>
<head>
<meta charset="UTF-8">
<title> Index </title>
link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
</head>
<body></br></br></br>>
```

```
<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;
```

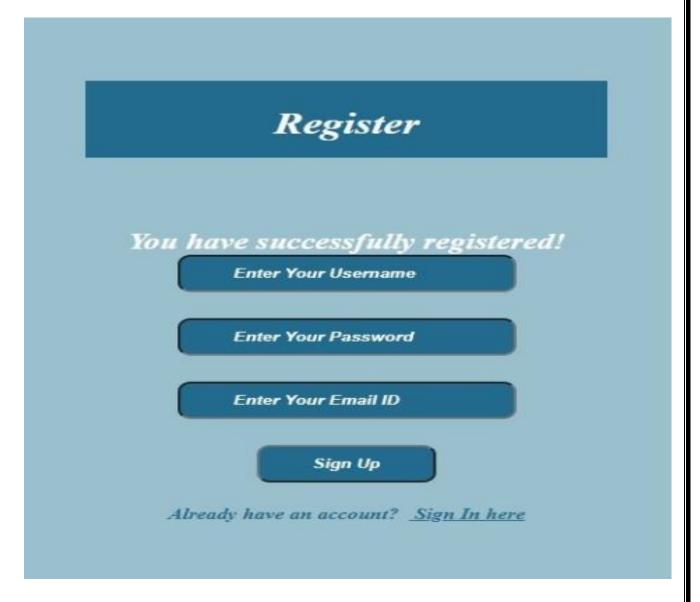
```
height: 450px;
  border: 1px solid #236B8E;
  border-radius: 0px;
  background-color: #9AC0CD;
}
.btn {
  padding: 10px 40px;
  background-color: #236B8E;
  color: #FFFFF;
  font-style: oblique;
  font-weight: bold;
  border-radius: 10px;
}
.textbox{
  padding: 10px 40px;
  background-color: #236B8E;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

```
font-style: oblique;
font-weight: bold;
}
.word{
  color: #FFFFFF;
  font-style: oblique;
  font-weight: bold;
}
.bottom{
  color: #236B8E;
  font-style: oblique;
  font-weight: bold;
}
```

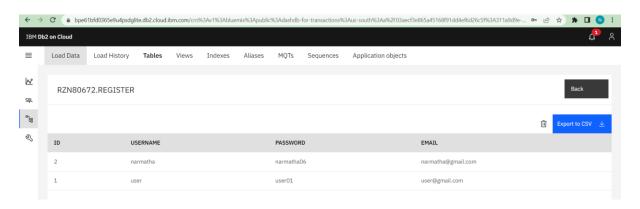
Before registration:



After registration:



db2:



Index page after successful logging:

Index

Hi user!!

Welcome to the index page...

Logout