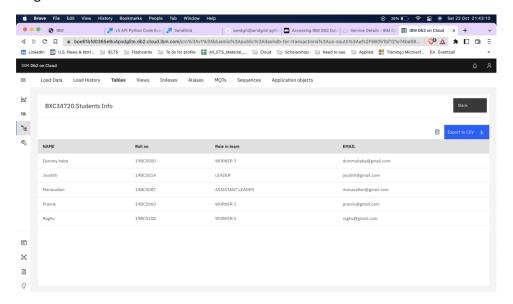
Assignment 2

MANAVALLAN S

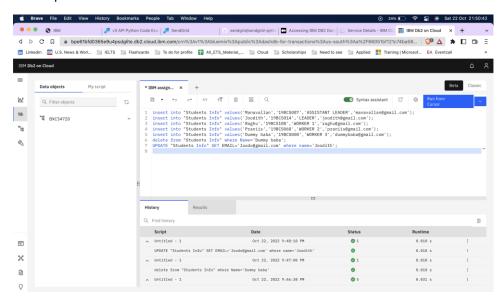
1. Create User table with user with email.username.roll number password.

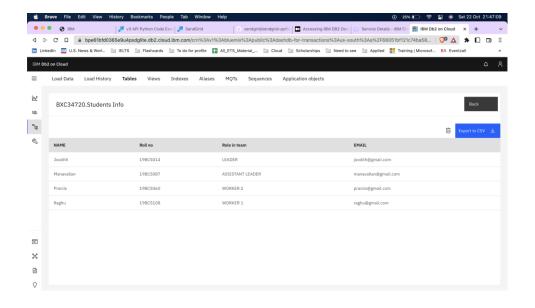
Original table

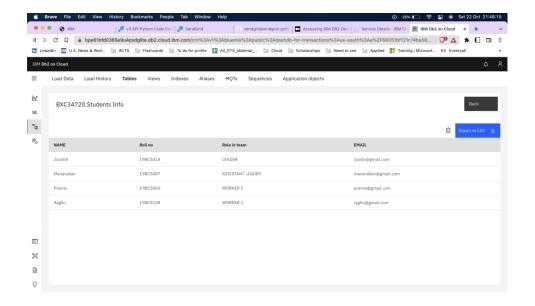


2. Perform UPDATE DELETE Queries with user table

After update and delete







SQL:

insert into "STUDENTS" values('Manavallan','19BCS087','ASSISTANT LEADER','manavallan@gmail.com','M@n@');

insert into "STUDENTS" values('Joodith','19BCS014','LEADER','joodith@gmail.com','J00d0');

insert into "STUDENTS" values('Raghu','19BCS108','WORKER 1','raghu@gmail.com','r@gh^');

insert into "STUDENTS" values('Praniis','19BCS060','WORKER 2','praniis@gmail.com','pr@n11s');

insert into "STUDENTS" values('Dummy baba','19BCS000','WORKER 3','dummybaba@gmail.com','\$^mm^');

delete from "STUDENTS" where Name='raghunandhan';

UPDATE "STUDENTS" SET EMAIL='Joodo@gmail.com' where name='Joodith';

3. Connect python code to db2.

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
from flask import Flask, render template, request, redirect, url for, session
import ibm_db
import re
app = Flask(__name__)
app.secret_key = 'Zenik'
conn = ibm_db.connect("DATABASE=bludb;"
           "HOSTNAME=ba99a9e6-d59e-4883-8fc0-
d6a8c9f7a08f.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;"
           "PORT=31321;"
           "SECURITY=SSL;"
           "SSLServerCertificate=DigiCertGlobalRootCA.cer;"
           "UID=bxc34720;"
           "PWD=PIzsoX1FFpyquMfI;", "", "")
@app.route('/')
@app.route('/home')
def home():
  user={'auth':False}
  return render_template('landing.html', title='Home', msg=" ",user=user)
```

```
def dashboard():
  sql = "SELECT * FROM STUDENTS WHERE NAME=?"
  stmt = ibm_db.prepare(conn, sql)
  print(session['username'])
  ibm_db.bind_param(stmt, 1, session['username'])
  ibm_db.execute(stmt)
  account = ibm_db.fetch_assoc(stmt)
  user={'auth':True}
  return render_template('landing.html', title='Dashboard', account=account,user=user)
@app.route('/logout')
def logout():
  session.pop('Loggedin', None)
  session.pop('id', None)
  session.pop('username', None)
  return redirect('/')
@app.route('/success')
def success():
  return render_template('success.html')
@app.route('/login', methods=['GET', 'POST'])
def login():
  global userid
  msg = " "
```

@app.route('/dashboard')

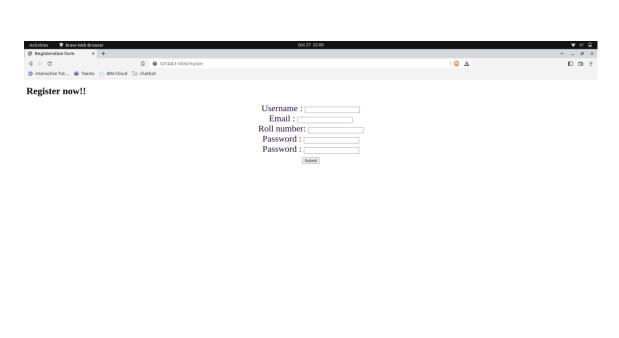
```
user = {'auth': False}
  if request.method == "POST":
    print("req post")
    username = request.form['username']
    password = request.form['password']
    sql = "SELECT * FROM STUDENTS WHERE NAME=? AND PASSWORD=?"
    stmt = ibm_db.prepare(conn, sql)
    ibm_db.bind_param(stmt, 1, username)
    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['NAME']
      userid = account['NAME']
      session['username'] = account['NAME']
      return redirect('/dashboard')
    else:
      msg = "Incorrect login credentials"
      return render_template('login.html', title='Login', msg=msg,user=user)
  else:
    return render_template('login.html', title='Login', msg=msg,user=user)
@app.route('/register', methods=['GET', 'POST'])
def register():
  user = {'auth': False}
  msg = " "
  print(request.method)
  if request.method == "POST":
```

```
print("INside")
username = request.form['username']
print(username)
email = request.form['email']
password = request.form['password']
password1 = request.form['re_password']
rollno = request.form['rollno']
sql = "SELECT * FROM STUDENTS WHERE NAME =? or EMAIL=?"
print(username, email)
stmt = ibm_db.prepare(conn, sql)
ibm_db.bind_param(stmt, 1, username)
ibm_db.bind_param(stmt, 2, email)
ibm_db.execute(stmt)
account = ibm_db.fetch_assoc(stmt)
print(account)
if account:
  msg = "Account already exists"
elif password1 != password:
  msg = "re-entered password doesnt match"
elif not re.match(r'[A-Za-z0-9]+', username):
  msg = "Username should be only alphabets and numbers"
else:
  print("insert")
  sql = "INSERT INTO STUDENTS VALUES (?,?,?,?,?)"
  stmt = ibm_db.prepare(conn, sql)
  ibm_db.bind_param(stmt, 1, username)
  ibm_db.bind_param(stmt, 2, rollno)
  ibm_db.bind_param(stmt, 3, "role")
  ibm_db.bind_param(stmt, 4, email)
  ibm_db.bind_param(stmt, 5, password)
```

```
ibm_db.execute(stmt)
  return redirect('/login')
return render_template('index.html', msg=msg, title="Register",user=user)
```

Dashboard:













Here's Your data

The username is equal to: raghunandhan The email is equal to: raghunandhan.aj@gmail.com The Roll number is equal to: 12345345678