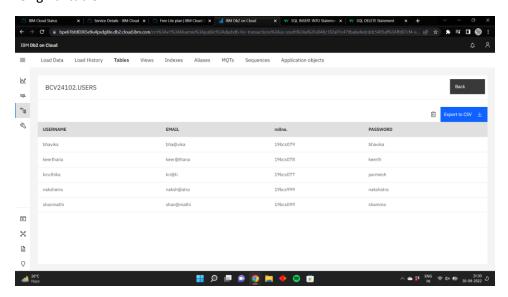
Assignment 2

Bhavika Arage

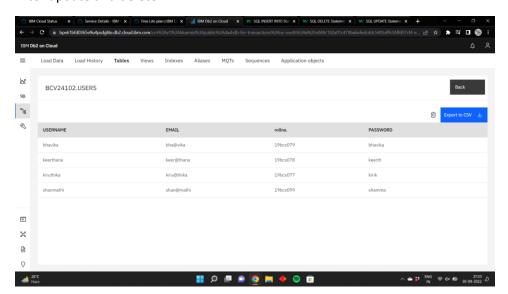
1. Create User table with user with email.username.roll number password.

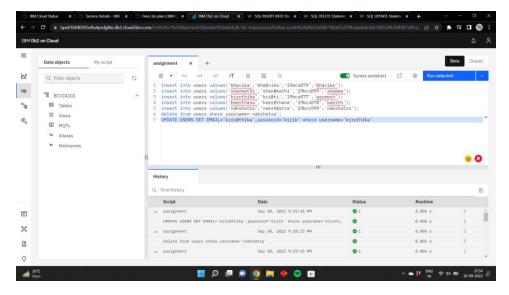
Original table



2. Perform UPDATE DELETE Queries with user table

After update and delete





SQL:

insert into users values('bhavika','bha@vika','19bcs079','bhavika');

insert into users values('shanmathi','shan@mathi','19bcs099','shamma');

insert into users values('kiruthika', 'kri@ti', '19bcs077', 'parmesh');

insert into users values('keerthana','keer@thana','19bcs078','keerth');

insert into users values('nakshatra','naksh@atra','19bcs999','nakshatra');

delete from users where username='nakshatra';

UPDATE USERS SET EMAIL='kiru@thika',password='kirik' where username='kiruthika'

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

```
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=6667d8e9-9d4d-4ccb-ba32-
21da3bb5aafc.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;"
                      "PORT=30376;"
                      "SECURITY=SSL;"
                      "SSLServerCertificate=C:/Users/bhaua/OneDrive/Desktop/SEM Stuff
KCT/IBM/DigiCertGlobalRootCA.crt;"
                      "UID=bcv24102;"
                      "PWD=ilZgx2Zokf2nJOCW;", "", "")
@app.route('/')
@app.route('/home')
def home():
   return render_template('home.html', title='Home', msg=" ")
@app.route('/dashboard')
def dashboard():
    sql = "SELECT * FROM USERS WHERE username =?"
    stmt = ibm db.prepare(conn, sql)
   ibm_db.bind_param(stmt, 1, session['username'])
   ibm_db.execute(stmt)
   account = ibm db.fetch assoc(stmt)
    return render template('dashboard.html', title='Dashboard', account=account)
@app.route('/logout')
def logout():
   session.pop('Loggedin', None)
   session.pop('id', None)
    session.pop('username', None)
   return redirect('/')
@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']
            return redirect('/dashboard')
        else:
            msg = "Incorrect login credentials"
   return render template('login.html', title='Login', 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']
        password1 = request.form['password1']
        rollno = request.form['rollno']
        sql = "SELECT * FROM USERS WHERE username =? or 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:
            sql = "INSERT INTO USERS VALUES (?,?,?,?)"
            stmt = ibm db.prepare(conn, sql)
            ibm db.bind param(stmt, 1, username)
            ibm db.bind param(stmt, 2, email)
            ibm db.bind param(stmt, 3, rollno)
            ibm_db.bind_param(stmt, 4, password)
            ibm db.execute(stmt)
            return redirect('/login')
    return render_template('register.html', msg=msg, title="Register")
if __name__ == '__main__':
```

app.run()

Respective html pages were created. (layout,home,login,registration,dashboard)



