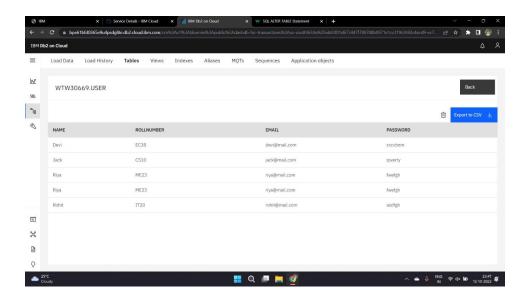
Assignment 2

Shanmathi M

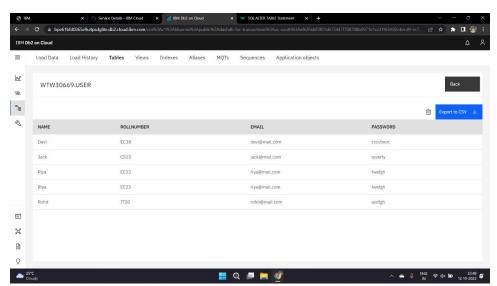
1. Create User table with user with email, username, roll number password.

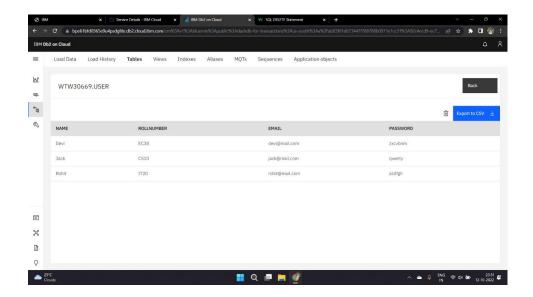
Inserted table



2. Perform UPDATE DELETE Queries with user table

After update and delete





SQL:

```
insert into user values('Devi', 'EC38','devi@mail.com', 'zxcvbnm'); insert into user values( 'Jack','CS10','jack@mail.com', 'qwerty'); insert into user values( 'Riya','ME23','riya@mail.com', 'fwefgh'); insert into user values( 'Riya','ME23','riya@mail.com', 'fwefgh'); insert into user values( 'Rohit','IT20','rohit@mail.com', 'asdfgh'); update user set rollnumber = 'EE23' where name = 'Riya' delete from users where name = 'Riya';
```

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 , template folder='templates')
app.secret_key = 'Zenik'
conn = ibm db.connect(r"DATABASE=bludb;" r"HOSTNAME=b70af05b-76e4-4bca-a1f5-
23dbb4c6a74e.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;"
r"PORT=32716;"
r"SECURITY=SSL;"
r"SSLServerCertificate=C:\Users\shanm\Downloads\DigiCertGlobalRootCA.crt;"
r"UID=wtw30669;"
r"PWD=Q6BpxIorRdGrfsdD;", "", "")
@app.route('/')
@app.route('/home')
def home():
return render_template('home.html', title='Home', msg=" ")
@app.route('/dashboard')
def dashboard():
sql = "SELECT * FROM USER WHERE name =?"
stmt = ibm db.prepare(conn, sql)
ibm_db.bind_param(stmt, 1, session['name'])
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('name', None)
return redirect('/')
@app.route('/login', methods=['GET', 'POST'])
def login():
global userid
msg = " "
if request.method == "POST":
 name = request.form['name']
 password = request.form['password']
 sql = "SELECT * FROM USER WHERE name =? AND password =?"
 stmt = ibm db.prepare(conn, sql)
 ibm_db.bind_param(stmt, 1, name)
 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['name'] = account['NAME']
 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":
name = request.form['name']
rollnumber = request.form['rollnumber']
email = request.form['email']
password = request.form['password']
password1 = request.form['password1']
print(name)
print(rollnumber)
print(email)
print(password)
sql = "SELECT * FROM USER WHERE name =? or email=?"
stmt = ibm_db.prepare(conn, sql)
ibm_db.bind_param(stmt, 1, name)
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]+', name):
 msg = "Username should be only alphabets and numbers"
else:
 sql = "INSERT INTO USER VALUES (?,?,?,?)"
 stmt = ibm_db.prepare(conn, sql)
 ibm_db.bind_param(stmt, 1, name)
 ibm_db.bind_param(stmt, 3, email)
 ibm db.bind param(stmt, 2, rollnumber)
 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()
```

