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Assignment 2

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

2. Perform UPDATE, DELETE Queries with user table

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

1.Creation of Table

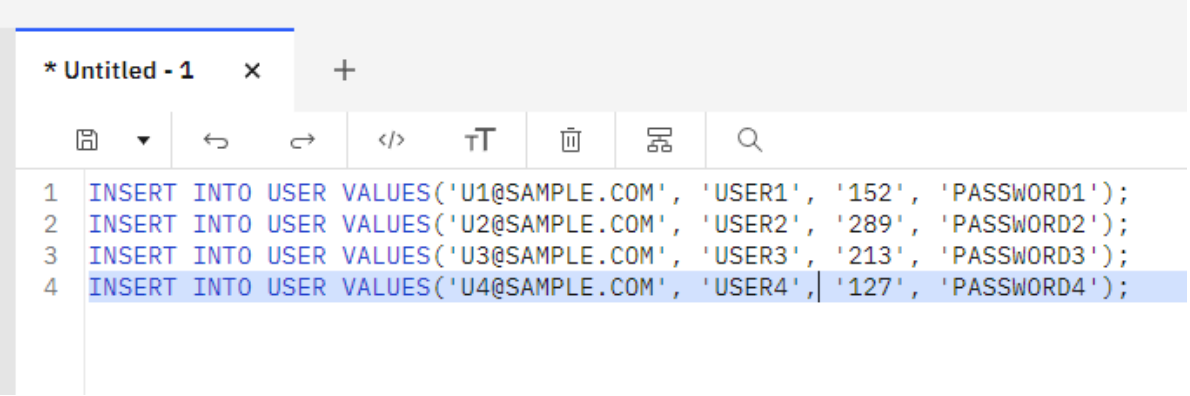
Table definition

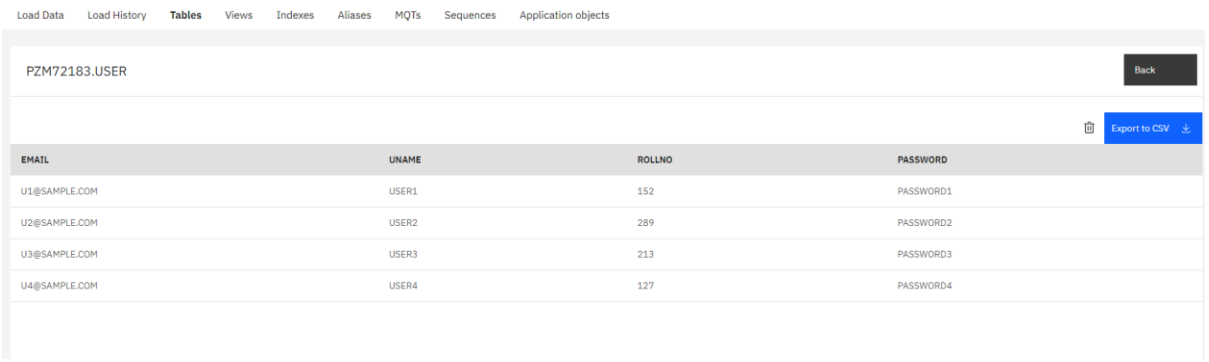
USER

No statistics available.

Name	Data type	Nullable	Length	Scale
EMAIL	CHAR	N	50	0
UNAME	CHAR	N	50	0
ROLLNO	BIGINT	N		0
PASSWORD	CHAR	N	50	0

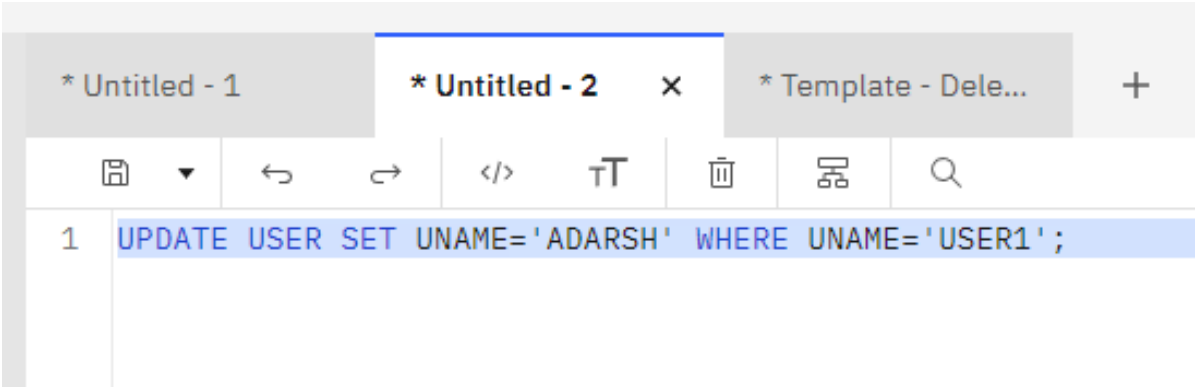
Insertion of Data





2.Performing Queries on the table

Update Query



Delete Query

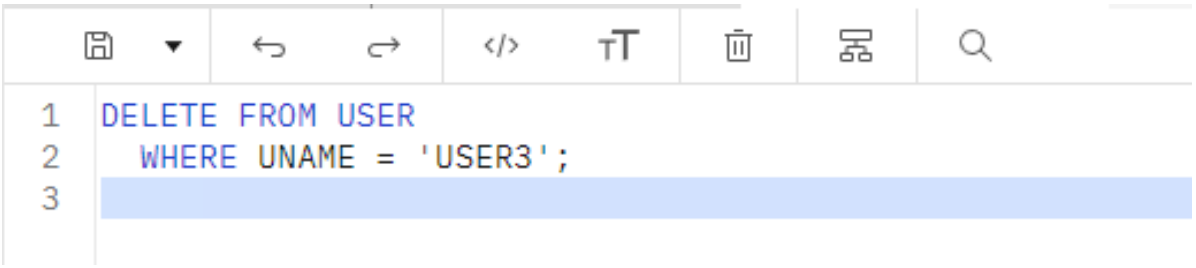
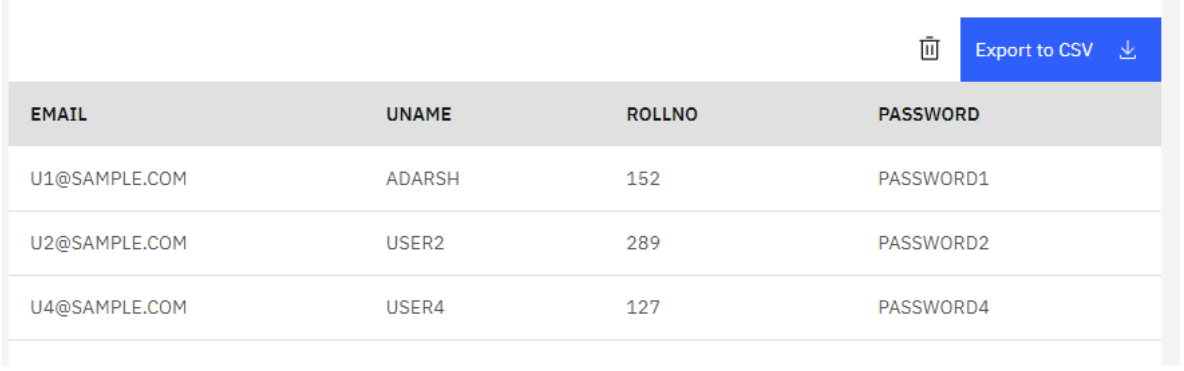


Table after updates



3.Connect python code to IBM Db2

```
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=ba99a9e6-d59e-4883-8fc0-
d6a8c9f7a08f.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=31321;Securit
y=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=pzm72183;PWD=esgc1kHRU
qTUfn9I;", "", "")
```

4.Flask app to create registration form and insert data into Db2

```
from flask import Flask, render_template, request, redirect, url_for, flash
from flask_wtf import FlaskForm
from wtforms import StringField, PasswordField, SubmitField
from wtforms.validators import DataRequired, Email, EqualTo
import ibm_db

app = Flask(_name_)
app.config['SECRET_KEY'] = 'mysecretkey'

conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=ba99a9e6-d59e-4883-8fc0-
d6a8c9f7a08f.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=31321;Securit
y=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=pzm72183;PWD=esgc1kHRU
qTUfn9I;", "", "")

class RegistrationForm(FlaskForm):
    first_name = StringField('First Name', validators=[DataRequired()])
    last_name = StringField('Last Name', validators=[DataRequired()])
    email = StringField('Email', validators=[DataRequired(), Email()])
    phone = StringField('Phone', validators=[DataRequired()])
    password = PasswordField('Password', validators=[DataRequired()])
    submit = SubmitField('Submit')

@app.route('/', methods=['GET', 'POST'])
def index():
    return render_template('index.html')

@app.route('/register', methods=['GET', 'POST'])
def register():
    form = RegistrationForm()
    if form.validate_on_submit():
        flash(f'Account created for {form.first_name.data}
{form.last_name.data}!', 'success')
        return render_template('success.html', form=form)
    sql = "INSERT INTO USER (EMAIL, UNAME, ROLLNO, PASSWORD) VALUES (?, ?, ?,
?)"
    stmt = ibm_db.prepare(conn, sql)
    ibm_db.bind_param(stmt, 1, form.email.data)
    ibm_db.bind_param(stmt, 2, form.first_name.data)
    ibm_db.bind_param(stmt, 3, form.phone.data)
```

```
    ibm_db.bind_param(stmt, 4, form.password.data)
    ibm_db.execute(stmt)

    return render_template('success.html', form=form)

@app.route('/success', methods=['GET', 'POST'])
def success():
    return render_template('success.html',
first_name=request.args.get('first_name'),
last_name=request.args.get('last_name'), email=request.args.get('email'),
phone=request.args.get('phone'))

if_name_== '_main_':
    app.run(debug=True)
```