Databázové systémy

SQL - CTE

Common Table Expressions

https://www.postgresql.org/docs/current/static/queries-with.html

 Niečo ako View, ktoré platí počas vykonávania statementu

WITH table_name AS (...)

Recursive queries

```
WITH RECURSIVE products_tree AS (
 SELECT id, label, parent id
  FROM hierarchy.products
  where id = 3
 UNION ALL
 SELECT p.id, p.label, p.parent_id
  FROM hierarchy.products p
  JOIN products_tree pt ON p.parent_id = pt.id
 SELECT * FROM products tree;
```

Menenie dát cez WITH

```
WITH moved rows AS (
  DELETE FROM products
  WHERE
    "date" >= '2010-10-01' AND
    "date" < '2010-11-01'
  RETURNING *
INSERT INTO products log
SELECT * FROM moved rows;
```

Dá sa aj bez returning...

```
WITH t AS (
DELETE FROM foo
)
DELETE FROM bar;
```

Zhrnutie

- CTE Vám môže pomôcť upratať vaše queries
- Rekurzívna špecialita
 - Prehľadávanie stromov, grafov...na jednu query