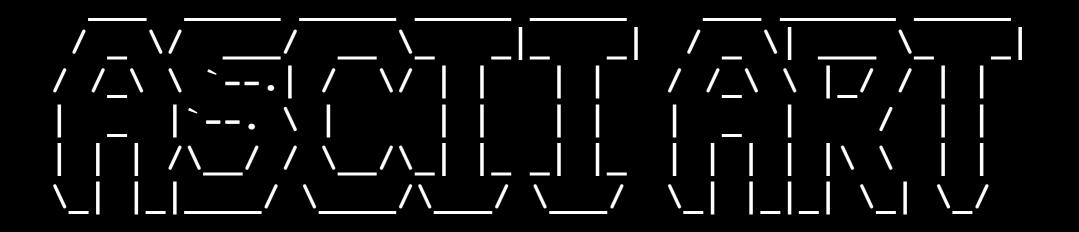
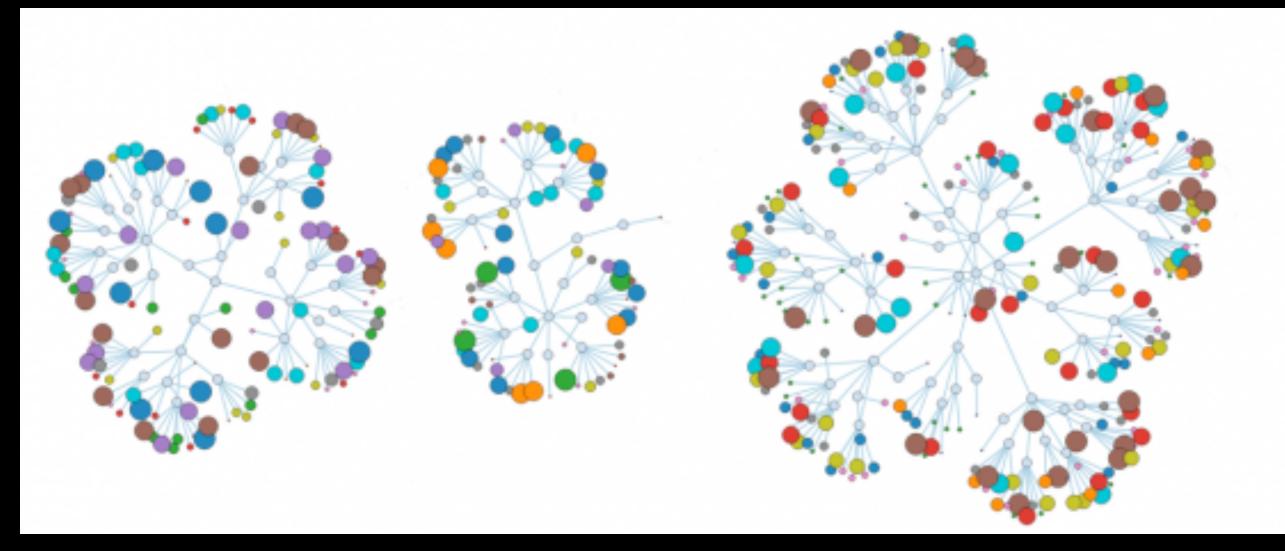
Query a Graph with



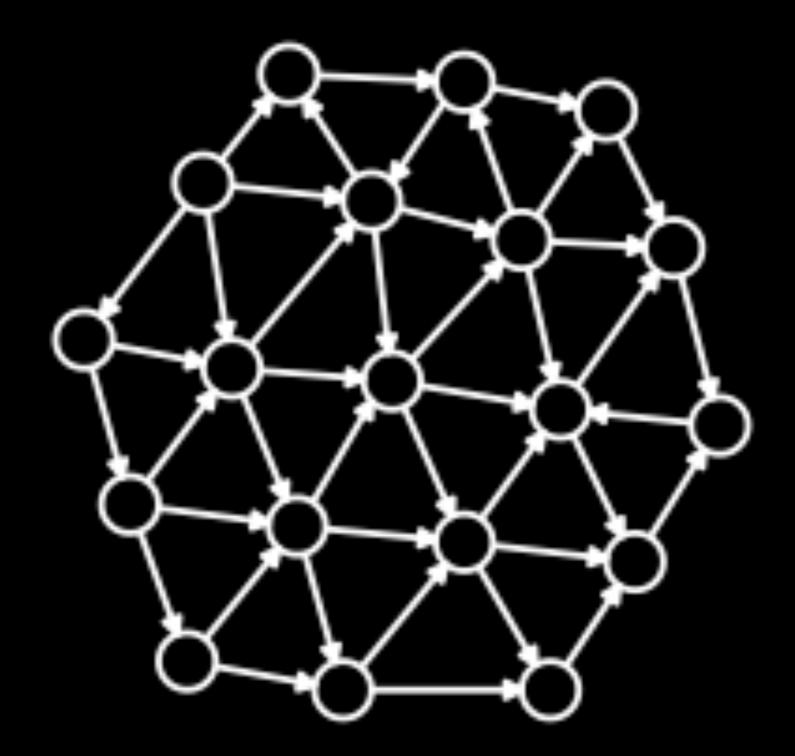
A Graph

Can't see the Patterns for the Trees

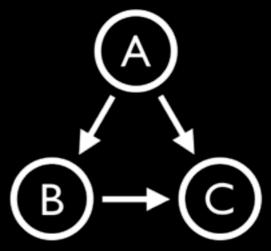


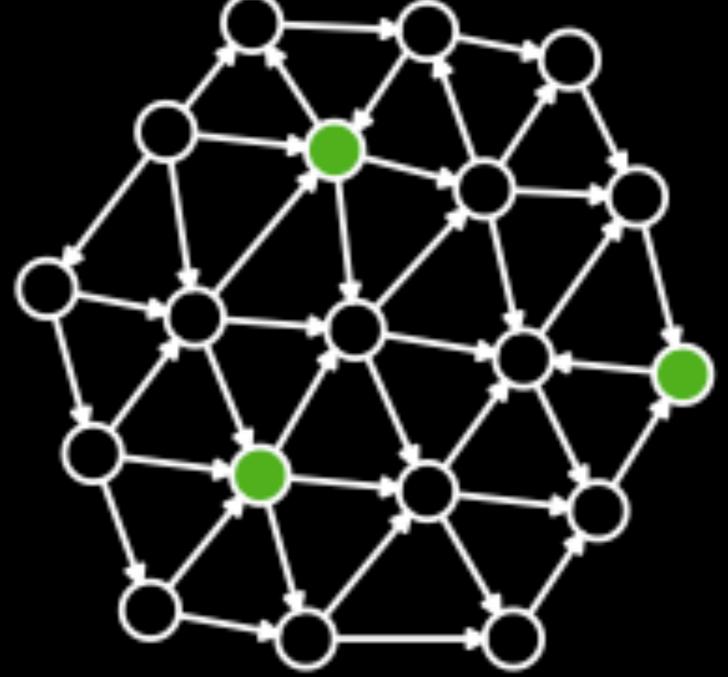
http://maxdemarzi.com/2012/02/13/visualizing-a-network-with-cypher/

Where?

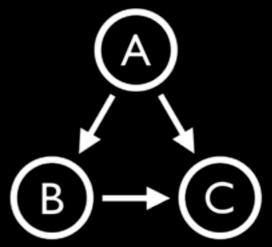


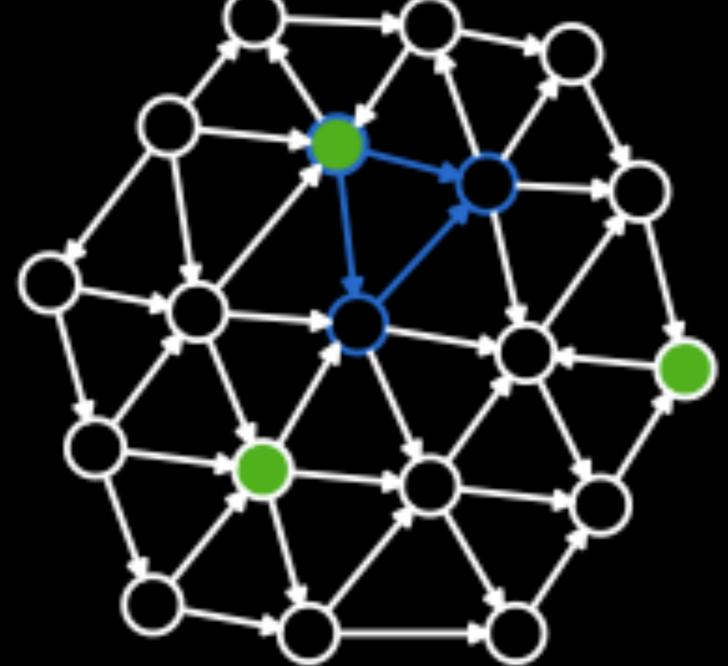
Describe them!





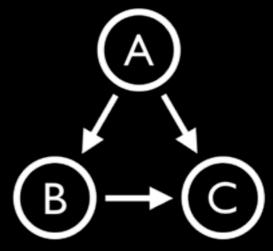
Find them on bound nodes





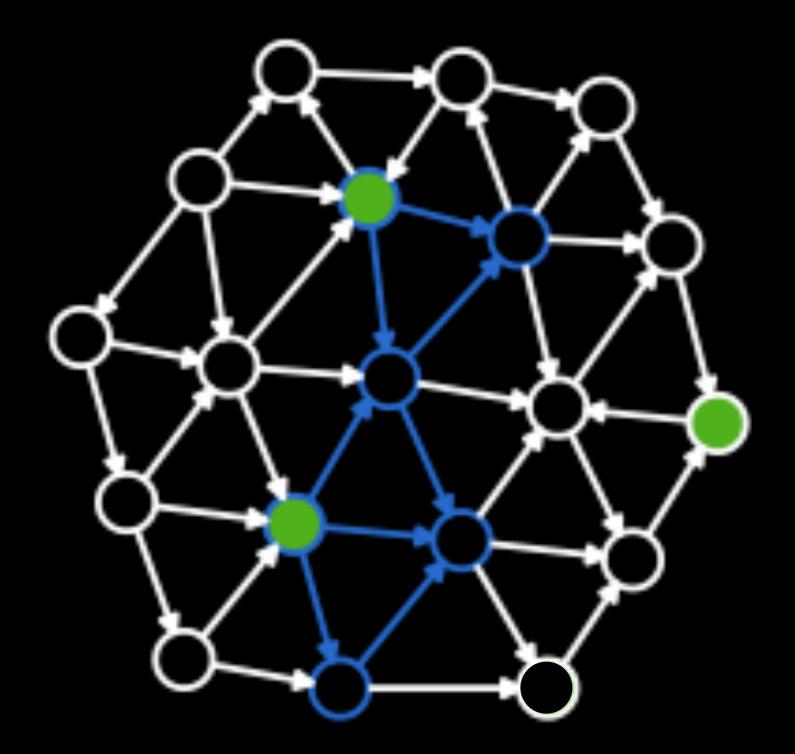


There are more !





Make them visible!

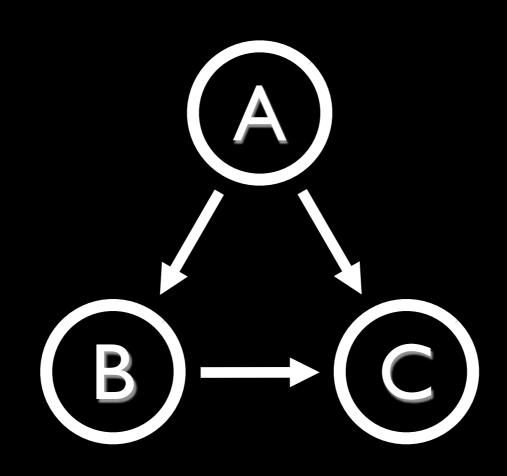


HOW ?

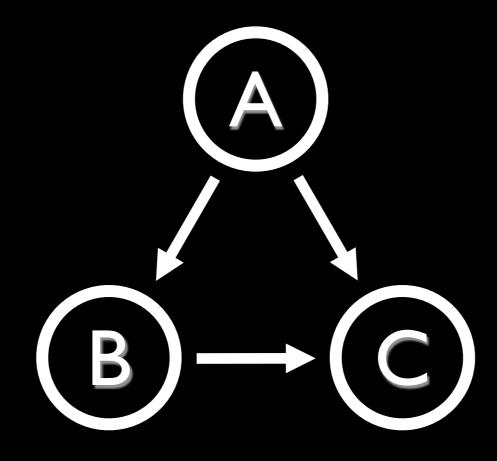
A Graph Query Language with Pattern Matching

SparQL, SQL ? NO, Cypher developed by and for Neo4j

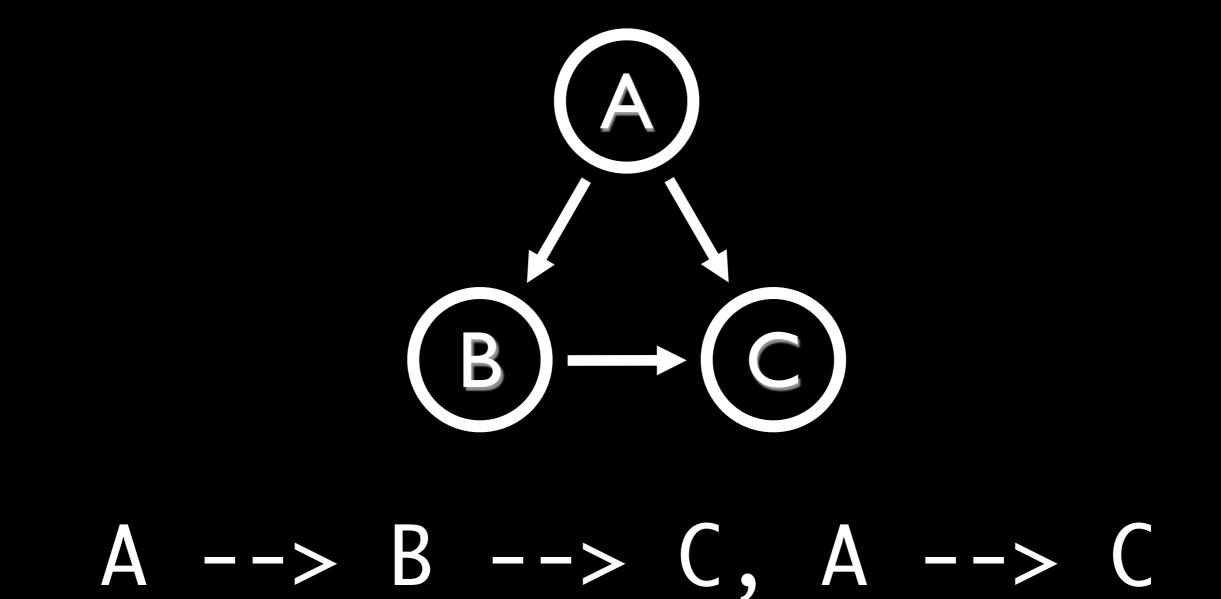
Can I draw Patterns?



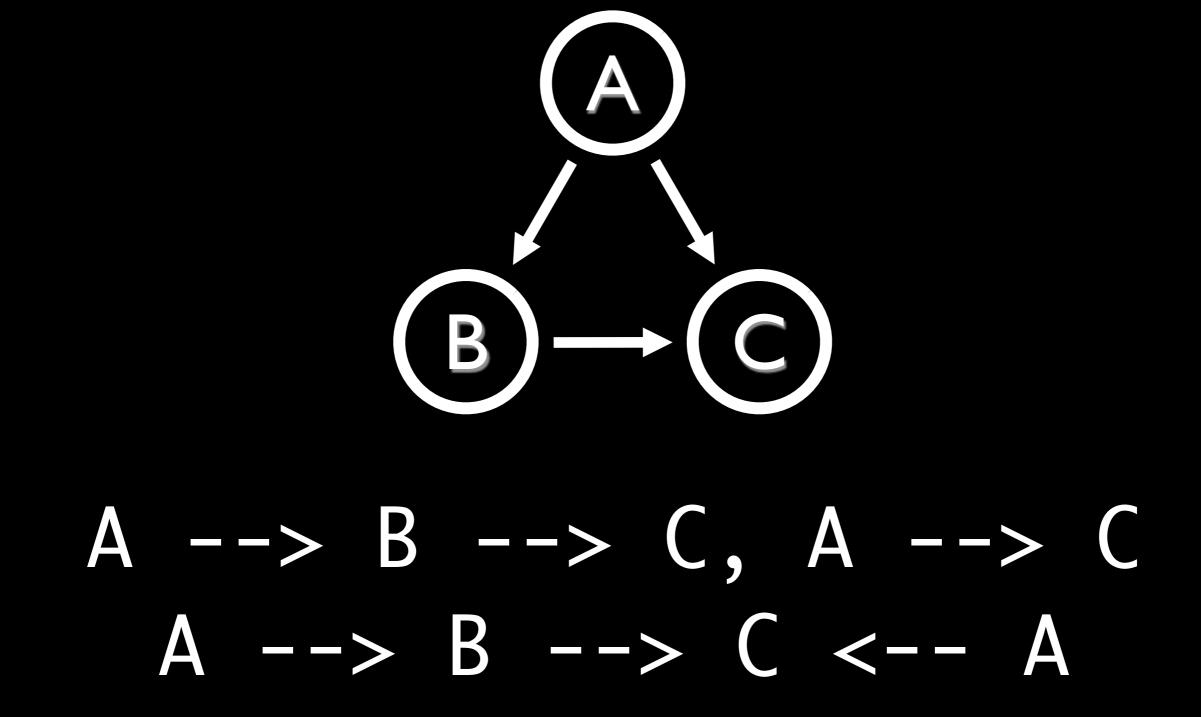
Sure, with ASCII ART!



Sure, with ASCII ART!



Sure, with ASCII ART!



Labeled Directed Relationship

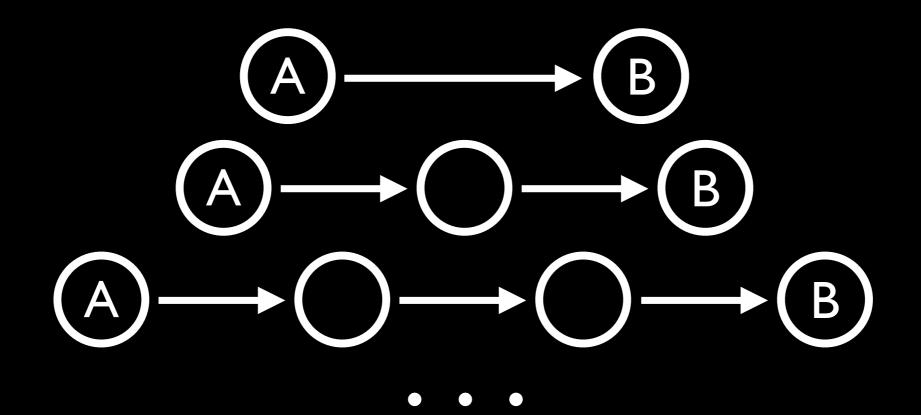


Labeled Directed Relationship

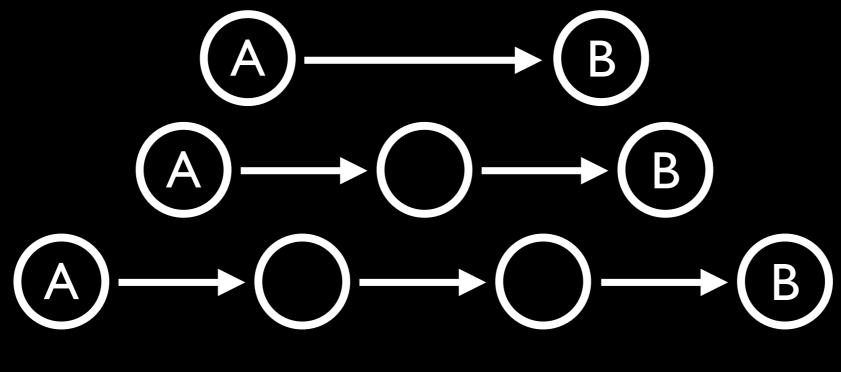


(A) -[:LOVES]-> (B)

Variable Length Path



Variable Length Path

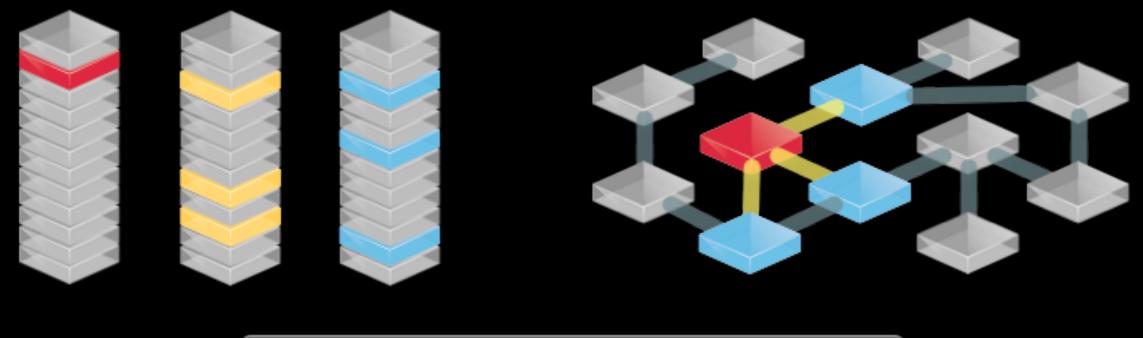


• • •

$A - [*] \rightarrow B$

Give me: JOINS

SELECT skills.*, user_skill.*
FROM users
JOIN user_skill ON users.id = user_skill.user_id
JOIN skills ON user_skill.skill_id = skill.id
WHERE users.id = 1





START user = node(1)
MATCH user -[r:USER_SKILL]-> skill
RETURN skill, r

Give me:

Old, Influential Friends

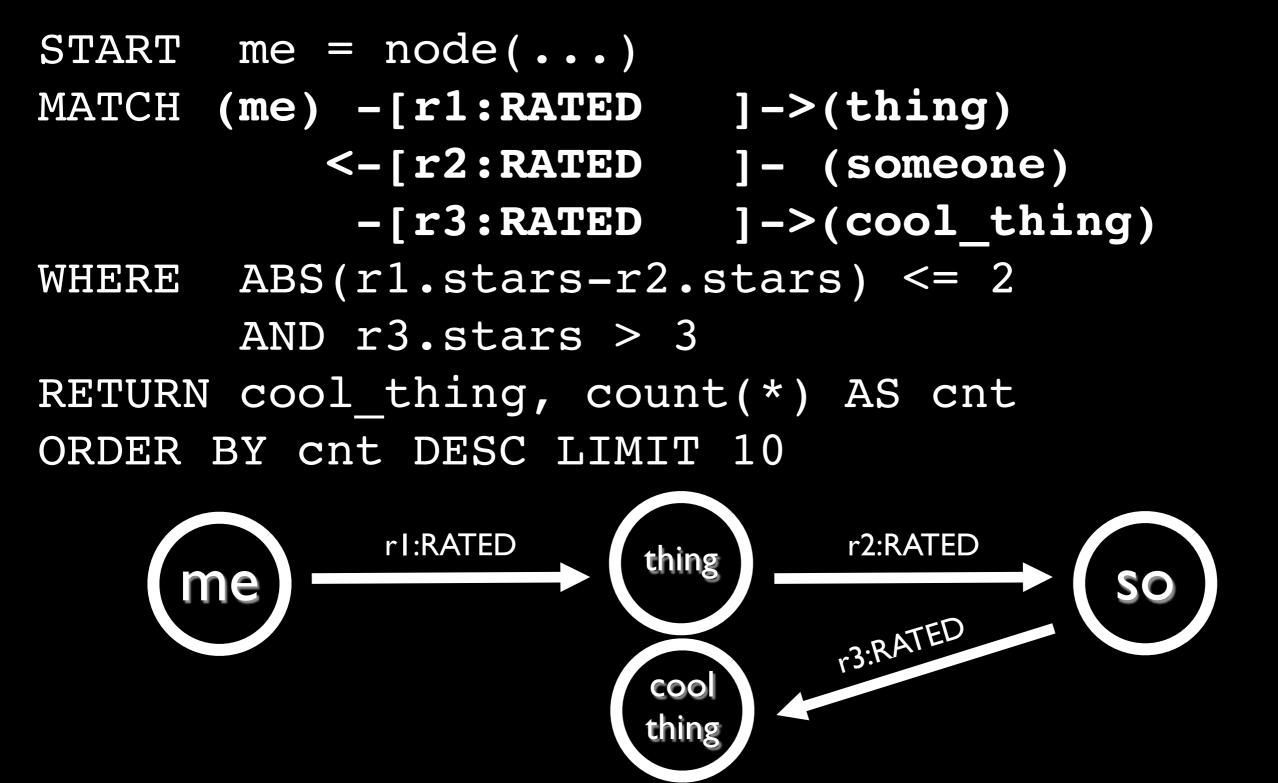
WITH old_friend, collect(fof.name) as names

WHERE length(names) > 100
RETURN old_friend, names
ORDER BY old friend.name ASC



Give me:

Simple Recommendation

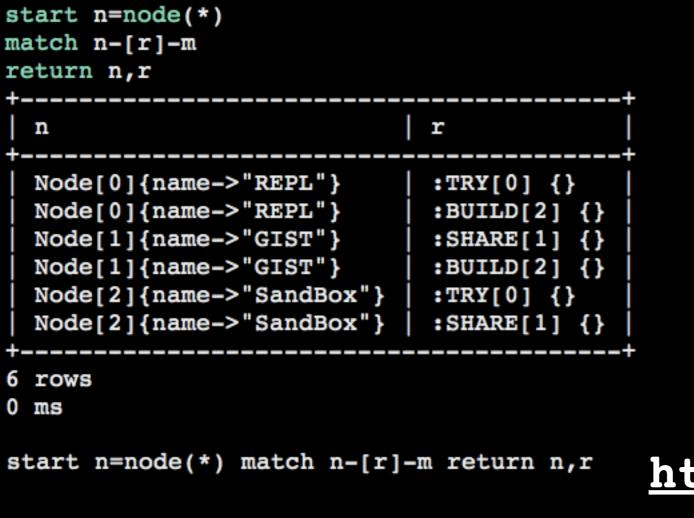


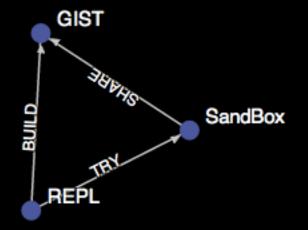
Results ?

- Tables: for Human Brainz & Tools
- Graphs:
 - to highlight, visualize,
 export & refining queries

The Rabbithole

You can modify and query this graph by entering statements in the input field at the bottom. For some syntax help hit the i button. If you want to share your graph, just do it with i





current 😫

http://console.neo4j.org

This Graph: <u>http://tinyurl.com/7cnvmlq</u>

Cypher: Some Goals

