Ten. Million. Questions. Let's celebrate all we've done together.

Stack Overflow is a question and answer site for professional and enthusiast programmers. It's 100% free.

Take the 2-minute tour

asked 4 months ago viewed 28 times

active 4 months ago

Neo4j Optional Relationship Match

Work on work you love. From home.





Blog

Why Stack Overflow is a Good Workplace for Women

3

then all nodes that connect to (b) but not those nodes that have already been identified as (b).

So... If my graph was:





I want to return { a, [b], [c, d] }.

So far, I have the following query (the 'prop' attribute distinguishes each node from each other):

I want to write a query that returns a node (a), the nodes that are directly adjacent to it (b), and

MATCH (a)<-[:something]-(b)<-[:something*0..]<-(c) WHERE NOT (c.prop IN b.prop) RETURN a.prop, collect(b.prop), collect (c.prop)

If my graph looks like:

a<--b

I expect the result to be { a, [b], [] } but instead I get nothing back, most likely due to c.prop being in b.prop. I tried using the OPTIONAL MATCH but that did not work either:

MATCH (a)<-[:something]-(b) OPTIONAL MATCH (a)<-[:something]<-(b)<-[:something*0..]<-(c) WHERE NOT (c.prop IN b.prop) RETURN a.prop, collect(b.prop), collect (c.prop)

Any way to get the intended results?

neo4j

share improve this question

asked Apr 14 at 17:20 Supervisor **124** • 2 • 11

add a comment

1 Answer

active

votes

When I run the following query:



MATCH (n:Crew)-[r:LOVES*]->m OPTIONAL MATCH (m:Crew)-[r2:KNOWS*]->o WHERE n.name='Neo' AND NOT (o.name IN m.name) RETURN n,m,o



in http://console.neo4j.org/, on the sample graph, I get Neo and Trinity, even though Trinity knows nobody (o is empty). I think the OPTIONAL MATCH only needs to contain the actual optional part of your traversal, whereas in your code you have everything. The (a)<-[:something]<-(b) should not appear there, only (b)<-[:something*0..]<-(c)

share improve this answer

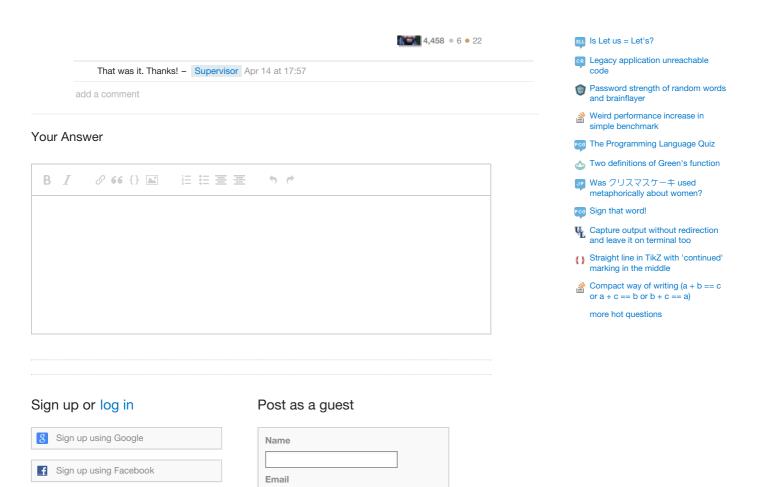
answered Apr 14 at 17:50 JP Moresmau

Related

- 2 Neo4j match multiple relationships
- 0 Neo4j: Multiple Relationship Combinations Between Nodes
- 2 neo4j cypher multi relationship between nodes
- 0 Match Command in Neo4j
- 0 Use first relationship in query path to filter the rest of the path relationships -Neo4i
- 1 Neo4j, Match Relationship WHERE AND
- o neo4j can't create relationships
- 1 Modeling arrows/relationships as nodes in Neo4i
- 1 Neo4j Eager and Optional Match Issues
- 2 neo4j and uni-directional relationship

Hot Network Questions

- Approximation of Borel sets by a countable collection of majorants
- Funding government by only printing
- Need to convert date format in apex
- Seven overlapping circles
- An "outside the box" sequence
- Fog Construct a polynomial with given
- Select polygons one by one and export them using arcpy
- Should you always minimize cognitive load
- How to ask dumb questions
- Why do we still use keys to start cars? why not passwords?



Post Your Answer

Sign up using Stack Exchange

By posting your answer, you agree to the privacy policy and terms of service.

Not the answer you're looking for? Browse other questions tagged neo4j or ask your own question.

required, but never shown

a question feed

