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Neo4j collection function error?





I am running the following query that is meant to compare two collections nodes set1 and set2. All nodes in set2 are in set1, and I would like to identify all the nodes in set1 that are NOT in set2. However, the query returns a set of nodes that includes some of the nodes in set1. I am running this query on v2.1.7. Suggestions?



MATCH p=(a:ObjectConcept{sctid:233604007})<-[:ISA*]-(b:ObjectConcept) with nodes(p) as set1, p MATCH q=(a:ObjectConcept{sctid:34020007})<-[:ISA*]-(b:ObjectConcept) nodes(q) as set2, set1, p WHERE ALL(x in set2 WHERE NOT x in set1) with nodes(p) as pneumo UNWIND pneumo AS pneumolist RETURN distinct pneumolist.FSN, pneumolist.sctid

Alternative query, same result: Query:

MATCH p=(a:ObjectConcept{sctid:233604007})<-[:ISA*]-(b:ObjectConcept) with nodes(p) as set1, p MATCH q=(a:ObjectConcept{sctid:34020007})<-[:ISA*]-(b:ObjectConcept) with nodes(q) as set2, set1, p WHERE NONE(x in set2 WHERE x in set1) with nodes(p) as pneumo UNWIND pneumo AS pneumolist RETURN distinct pneumolist.FSN, pneumolist.sctid

neo4j

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edited Apr 9 at 22:18 Michael Hunger **25.2k** • 2 • 21 • 41 asked Apr 9 at 21:39



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Thank you, Michael for the editorial corrections. I am not sure why my code formatting did not post correctly. Regarding the query issue, I have upgraded to Neo4j v2.2.0, but the problem remains with the query result. Why is this query not removing all nodes contained in set2 from those in set1? This query is precisely the same as that posted for a similar question on March 23, 2014 as posted on grokbase.com/t/gg/neo4j/143qx24hak/... - Scott Campbell Apr 10 at 14:09 مع المحافظة على المحافظة المح

you need a empty line before code blocks - Michael Hunger Apr 10 at 14:48

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2 Answers

0

Your matches don't return just one row as you might expect but many rows, and your comparison is done between the cross product of those many row combinations. You probably want to create a set for each of your two subtrees first with a combination of unwind + collect(distinct)

The code below will not be as fast, as cypher internally doesn't have a Set concept yet.

try this

MATCH p=(a:ObjectConcept{sctid:233604007})<-[:ISA*]-(b:ObjectConcept) unwind nodes(p) as n with collect(distinct n) as set1 MATCH q=(a:ObjectConcept{sctid:34020007})<-[:ISA*]-(b:ObjectConcept) unwind nodes(q) as m with collect(distinct m) as set2

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WHERE NONE(x in set2 WHERE x in set1)
UNWIND set1 AS pneumolist
RETURN distinct pneumolist.FSN,pneumolist.sctid

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1 Thanks, Michael. I came to a similar conclusion and used a REDUCE function. The query very fast. – Scott Campbell Apr 10 at 18:28

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The following query was successful, and addresses Michael's discussion regarding cross products (above).

0

MATCH p=(a:ObjectConcept{sctid:233604007})<-[:ISA*]-(b:ObjectConcept)
with distinct nodes(p) as set1
UNWIND set1 as x1
with collect(DISTINCT x1) as set11
MATCH q=(a:ObjectConcept{sctid:34020007})<-[:ISA*]-(b:ObjectConcept)
with distinct nodes(q) as set2,set11
UNWIND set2 as x2
with collect(distinct x2) as set22,set11
with REDUCE(pneumo=[],x in set11|case when x in set22 then pneumo else pneumo
return pneumo

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