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Complex Cypher query using aggregated functions and math operations



I'm working with a Neo4j embbeded database, using Java API and Cypher queries, using a model of nodes and relationships like this:

0

MATCH (t:Task)-[:ASIGNED_T0]->(p:Person)

Now, the following fields o properties for each kind of node:

Task (id, estimated_time,closed, priority, evaluation, start_date, end_date)
Person(id,name)

Using this formula:

A = 3*count(B)+2*count(C)+count(D)

Where B are the tasks with priority 'High', C:'Medium', and D: 'Low'. I want a query that calculate A factor for a person (this is using a WHERE clause specifying its id). Summarizing: Take the person's tasks, know which of them have a custom priority, and calculate A using the previous expression. Of course I have tried with some queries like this:

MATCH (p:Person{id: 178}) //with the person with id 178 WITH p
MATCH (t1:Task)-[:ASIGNED_T0]->p
WHERE t1.priority = 'High'
WITH p, count(t1) as B
MATCH (t2:Task)-[:ASIGNED_T0]->p
WHERE t2.priority = 'Medium'
WITH p, B, count(t2) as C
MATCH (t3:Task)-[:ASIGNED_T0]->p
WHERE t3.priority = 'Low'
WITH p,B,C,count(t3) as D
RETURN p.id, (3*B+2*C+D)

And this return 0 rows, but if I try just with

MATCH (p:Person{id: 178})
WITH p
MATCH (t1:Task)-[:ASIGNED_T0]->p
WHERE t1.priority = 'High'
WITH p, count(t1) as B
RETURN p.id, B

It returns correctly that has 21 tasks with High priority. Any ideas?

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asked Mar 30 at 0:21
Rigoberto Peña
53 • 5

1 Answer

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Has the Person with id 178 tasks with all types of priorities? If not, try this:



MATCH (p:Person{id: 178}) WITH p OPTIONAL MATCH (t1:Task)-[:ASIGNED_TO]->p asked 4 months ago

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WHERE t1.priority = 'High' WITH p, count(t1) as B OPTIONAL MATCH (t2:Task)-[:ASIGNED_TO]->p WHERE t2.priority = 'Medium' WITH p, B, count(t2) as C OPTIONAL MATCH (t3:Task)-[:ASIGNED_TO]->p WHERE t3.priority = 'Low' WITH p,B,C,count(t3) as D RETURN p.id, (3*B+2*C+D)

Other option: Try use PR0FILE command for getting more information about your Cypher query execution. (link)

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edited Mar 30 at 6:50

answered Mar 30 at 6:42
Richard Günzl

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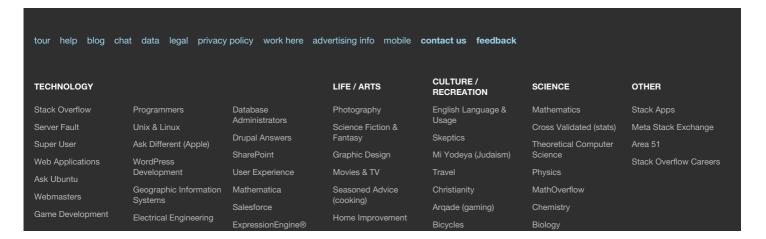
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