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How to create conditional relationships?



I have a system that is run by an organization to implement a certain function, thus I have the relationship:

0

Organization → Function → System



but sometimes the function remains unknown, in which case I want to bind the system directly to the organization:

Organization → System

how do I write this kind of thing?

the System contains attributes that are used for creating these relationships e.g.

create (s:System {id: 'x', Organization: 'MST', Function: 'CM'})

or

create (s:System {id: 'x', Organization: 'MST'})

which means I can find the nodes like this:

match (s:System), (o:Organization {Code: s.Organization}) optional match (f:Function {Code: s.Function})

...but how do I create the relationship?

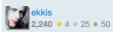
neo4j cypher

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edited Apr 13 at 18:29

asked Apr 13 at 17:19

active



A bit offtopic i think but, id consider doing System -> Organization -> Function instead, I'm not sure I understand your model. - Felype Apr 13 at 17:25

an organization performs a number of functions, each of which is supported by a given system - ekkis Apr 13 at 17:28

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2 Answers

I found Mark Needham's post:



http://www.markhneedham.com/blog/2014/06/17/neo4j-load-csv-handling-conditionals/



...which offers a torturous syntax but provides a solution. Is there a nicer way to accomplish this?



match (s:System), (o:Organization {Code: s.Organization}) optional match (d:Function {Code: s.Function}) foreach (n in (case when s.Function is null then [1] else [] end) | create (o)-[:Runs]->(s) foreach (n in (case when s.Function is not null then [1] else [] end) | asked 4 months ago

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