

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

How to find Paths based on a Relationship property ?



2



i'm totally new to Neo4J and for 3 days no, I've been trying to figure out, how to get paths between 2 room.

The function `allShortestPaths()` gets me a result like this
http://www.directupload.net/file/d/3948/79bvpbzd_jpg.htm or like this
http://www.directupload.net/file/d/3948/56j6plhh_jpg.htm
(sorry, my reputation does not allow me to include pics directly).

This function worked out of the box but uses all kind of relationships to traverse from start to end. But what if i only want to get a path with a relationship with a certain property?

A path could look like this: `(start:Room {name: "x"})-[*]-("another node")-[*]-("other node")-[:CONNECTED_TO {state: "free"}]-("another node")-[*]-end:Room {name: "y"}`

What i know about wanted path is:

- start node
- end node
- property and label of a relationship somewhere within the path

What i don't know and what is not important is:

- how long will the path be
- what other relationships are on the path

The next step would be to specify the paths I'm looking for more precisely, for example by properties of nodes in that path.

i.e. find a path from (A) to (H), where `(C {type: "SC"})-[:CONNECTED_TO {state: "free"}]- (D {type: "SC"})`

I've read a lot of stuff right know and tried a million different cyphers, but the more i read and the more i try, the more i get confused. Can anyone please give me a hint?

Thank you in advance

Ichnafi

neo4j

share improve this question

edited Apr 5 at 16:47



Heshan Sandeepa
1,512 ● 1 ● 8 ● 20

asked Apr 5 at 16:00



Ichnafi
13 ● 3

add a comment

1 Answer

active

oldest

votes



3



What i know about wanted path is:

- start node
- end node
- property and label of a relationship somewhere within the path

asked 4 months ago

viewed 42 times

active 4 months ago

Blog

Why Stack Overflow is a Good Workplace for Women



stackoverflowcareers

Related

- 17 Time-based data in neo4j
- 6 Cypher query: Finding all paths between two nodes filtered by relationship properties
- 3 How do I retrieve a fully represented path in Neo4J's cypher rest API
- 2 Cypher query: find path by relationship properties
- 1 how to traverse first neighbors and their relationships
- 1 Neo4j: Shortest Path based on Property
- 1 Why are there so much nodes, relationships and properties in the dashboard?
- 0 how to find the longest path among relationships with a certain property value?
- 0 Relationship properties are confused with nodes resulting in SyntaxError: Don't know how to compare that
- 0 Neo4j lucene query on relationships and nodes property

Hot Network Questions

What you are looking for is the **ANY** predicate, it tests whether the predicate holds for at least one element in the collection. In your case the collection is *all the relationships in the path*.


A simple query would be :

```
MATCH (start:Room {name:'x'}), (end:Room {name:'y'})
MATCH p=allShortestPaths((start)-[*]-(end))
WHERE ANY(
    x IN rels(p) WHERE type(x) = 'RELATIONSHIP_TYPE'
    AND x.prop = propValue )
RETURN distinct(p)
```

More in the documentation : <http://neo4j.com/docs/stable/query-predicates.html#functions-single>

share improve this answer

answered Apr 5 at 18:58




 **Christophe Willemssen**
5,115 ● 1 ● 4 ● 17




Thank you so much. Not only that this cypher works like a charm, i also think i have understood it. — **Ichnafi**
Apr 6 at 11:26


add a comment

Your Answer


B I









Sign up or [log in](#)

 Sign up using Google

 Sign up using Facebook

 Sign up using Stack Exchange

Post as a guest

Name

























Email

required, but never shown

Post Your Answer

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](#).

- 
- 
- 
- 
- 
- 
- 
- 
- 
- 
- 
- 
- 
- 
- 
- 
- 
- 
- 
- 
- 
- 
- 
- 

 question feed

[tour](#) [help](#) [blog](#) [chat](#) [data](#) [legal](#) [privacy policy](#) [work here](#) [advertising info](#) [mobile](#) [contact us](#) [feedback](#)

TECHNOLOGY

- Stack Overflow
- Server Fault
- Super User
- Web Applications
- Ask Ubuntu
- Programmers
- Unix & Linux
- Ask Different (Apple)
- WordPress Development
- Database Administrators
- Drupal Answers
- SharePoint
- User Experience

LIFE / ARTS

- Photography
- Science Fiction & Fantasy
- Graphic Design
- Movies & TV

CULTURE / RECREATION

- English Language & Usage
- Skeptics
- Mi Yodeya (Judaism)
- Travel

SCIENCE

- Mathematics
- Cross Validated (stats)
- Theoretical Computer Science
- Physics

OTHER

- Stack Apps
- Meta Stack Exchange
- Area 51
- Stack Overflow Careers

