stackoverflooooooow

Questions | Tags | Users | Badges | Unanswered | Ask Question

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**   ✕

Trying a single Neo4j Cypher query for my graph

▲
2
▼
★

I have "users" who owns "items", users are also friends w/ each other. I am trying to construct a cypher query to return all items I own PLUS those my friends own in a single query. I can do them individually but can't figure out how to do it in a single query.

RELATIONSHIPS:

```
(u:user)-[:OWNS]-(i:items)
(u:user)-[:FRIEND]-(f:user)
```

Let's say I have just two users in my DB and 100 items. Out of 100, the first person owns (1-5) 5 items and the 2nd person owns another 5 items(6-10). These two users are also friends.

I get 5 items if I do:

```
MATCH (uer1)-[:OWNS]->(i:items) return i
```

I get another 5 items if I do:

```
MATCH (uer1)-[:FRIEND]->(f)-[:OWNS]->(i:items) return i
```

But I need to combine them both for a given user(user1) so I can return all 10 items in a single shot. How to do that?

neo4j   cypher

share improve this question

asked Mar 31 at 23:20
👤 **Raja Rao**
1,124 ● 9 ● 16

add a comment

1 Answer

active   oldest   **votes**

▲
2
▼
✓

You have two (or more options)

Union

```
MATCH (user:User {name:"Raja"})-[:OWNS]->(i:Item) return i
UNION
MATCH (user:User {name:"Raja"})-[:FRIEND]->(f)-[:OWNS]->(i:Item) return i
```

Variable length paths

```
MATCH (user:User {name:"Raja"})-[:FRIEND*0..1]->(f)-[:OWNS]->(i:Item) return i
```

in this case we look at friends of the distance 0 (the user itself) to one (first degree friends)

The first option might be faster The second is more versatile.

share improve this answer

answered Mar 31 at 23:35
👤 **Michael Hunger**
25.2k ● 2 ● 21 ● 41

Thanks for quick response! Both answers are great! 2.2 browser doesn't show time-taken anymore so not sure which one is faster. – Raja Rao Mar 31 at 23:53

---

asked   4 months ago
viewed   25 times
active   4 months ago

Related

1 How do I provide multiple queries in Neo4j Cypher?

1 neo4j cypher query filter specific relation

1 Neo4j cypher query with variable relationship path length

6 slow neo4j cypher query

0 Neo4J two way relationship query with cypher

0 Neo4j cypher query simulate sql join query

0 The magic behind Neo4J Cypher query results

0 Performance in Neo4j cypher query

1 Neo4j cypher query performance when ordering a large data set

2 Finding path using Cypher queries in neo4j

Hot Network Questions

🏴 Why do tenured professors still publish in pay-walled venues?

⬡ The Hiding Rules Contradict Themselves. What Can I Make Of This?

🎮 The Programming Language Quiz

💬 Which type of drill bit for which jobs?

🎨 What is aliasing and what causes it?

🌐 Could an autotrophic civilisation develop, or will evolving life forms always eat each other?

⬡ Can a Glaive be stowed in a Ruby Scabbard?

{} Make subscript size smaller (always)

⬡ Preventing a Print expression from generating a new cell each time it executed

🌐 Religion After the Discovery of a Multiverse

add a comment

Your Answer

B *I* 🔗 66 { } 🖼 1. ≔ ☰ ⇥ ↩ ↪

Sign up or log in

[8] Sign up using Google

[f] 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 cypher or ask your own question.

📶 Dullness vs. going overboard: Should I be calling people 'enfants terribles' in an academic paper?

◆ Manager sounds upset every time I inform him of a (minor) obstacle

✈ Can a plane fly backward if its prop's in reverse?

● Does developing on ARM Processors from different vendors differ much?

MO Important formulas in Combinatorics

Is it 'Batmen' or 'Batmans'?

🛡 Would allowing shorter passwords sometimes be more secure?

more hot questions

📶 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
Webmasters
Game Development
TeX - LaTeX

Programmers
Unix & Linux
Ask Different (Apple)
WordPress Development
Geographic Information Systems
Electrical Engineering
Android Enthusiasts
Information Security

Database Administrators
Drupal Answers
SharePoint
User Experience
Mathematica
Salesforce
ExpressionEngine® Answers
more (13)

LIFE / ARTS

Photography
Science Fiction & Fantasy
Graphic Design
Movies & TV
Seasoned Advice (cooking)
Home Improvement
Personal Finance & Money
Academia
more (9)

CULTURE / RECREATION

English Language & Usage
Skeptics
Mi Yodeya (Judaism)
Travel
Christianity
Arqade (gaming)
Bicycles
Role-playing Games
more (21)

SCIENCE

Mathematics
Cross Validated (stats)
Theoretical Computer Science
Physics
MathOverflow
Chemistry
Biology
more (5)

OTHER

Stack Apps
Meta Stack Exchange
Area 51
Stack Overflow Careers