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

asked 4 months ago viewed 78 times

Slow cypher queries in Neo4j server mode - jersey-REST

Work on work you love. From home.

by a user via embedded... thanks





Blog

■ Why Stack Overflow is a Good Workplace for Women

0



• DOMAIN MODEL: 300.000 nodes, 1.500.000 relationships (of 40 types, including IS A type). There is about 15 big hierarchies (each of one has between 1.000 and 100.000 nodes), and these hierarchies (its nodes) are related with the nodes of other hierarchies.

I am accessing and querying a graph db via REST, with Jersey and I am obtaining Json files with the results, but it is slower than querying it via embedded. My graph has 350.000 nodes and

1.500.000 relationships. I don't know if there is a way for not blocking the db when it is accessed

QUERY:

```
MATCH (a: Concept{conceptid : '123456'}) <- [:RELCL] - (b: Concept) - [:REL
{reltype: '112233'}] -> (c: Concept) - [:RELCL] -> (av: Concept {conceptid:
'654321'})
```

RETURN DISTINCT b.conceptid AS CONCEPTID

Note that RELCL is the IS_A relationship.

Note that

```
MATCH (a: Concept{conceptid : '123456'}) <- [:RELCL] - (b: Concept)
```

b returns 300,000 nodes.

```
(c: Concept) - [:RELCL] -> (av: Concept {conceptid: '654321'})
```

c returns 300.000 nodes.

Time executed via (Neo4j embedded):

```
GraphDatabaseService graphDb = new GraphDatabaseFactory().newEmbeddedDatabase(DB_PAT
ExecutionEngine engine = new ExecutionEngine(graphDb);
ExecutionResult result = engine.execute(query));
```

= 12 s.

Time executed via (Neo4j server mode (Neo4j Community 2.1.5) - jersey-REST):

```
final String txUri = SERVER_ROOT_URI + "transaction/commit"
WebResource resourceQuery = Client.create().resource( txUri );
String payload = "{\"statements\" : [ {\"statement\" : \"" +query + "\"} ]}";
 ClientResponse responseQuery= resourceQuery
.accept( MediaType.APPLICATION_JSON )
.type( MediaType.APPLICATION_JSON )
.entity( payload )
.post( ClientResponse class );
String res = String.format("POST [%s] to\n [%s], \nstatus code [%d %s], returned dat
payload, txUri, responseQuery.getStatus(),
responseQuery.getClientResponseStatus(), responseQuery.getEntity( String.class ) );
```

= 240 s.

When executing both codes in Eclipse, I put in Run Configuration -Xms12G -Xmx16G as VM Arguments. I see, when executing embedded version, that RAM increase over 8GB in javaw process. But when executing Server-REST version, it only reach 130MB. (The PC where I am

Related

- Neo4j Executing cypher query via rest
- 3 Neo4j increasing latency as SKIP increases on Cypher query + REST API
- 1 Connection Neo4j with Glassfish via Rest
- 3 Optimizing high volume batch inserts into Neo4j using REST
- 0 Neo4j Cypher query results serialisation in Java
- 4 Neo4j Cypher Query Extremely Slow (about 20 minutes)
- 0 Neo4j slow cypher query big graph with hierarchies
- 1 Neo4j: Create nodes via CYPHER/REST slow
- 1 Neo4j/CYPHER: How can I query some properties from a node, its relationships and target node efficiently?
- 0 Is it possible to query a Neo4J db using Cypher, via the REST API, and return the URI of a node?

Hot Network Questions

- Does touching the tent outer wall from the inside make it leak?
- Should you always minimize cognitive load
- Why are carpenter's pencils flat?
- A short, brutal riddle
- Seven overlapping circles
- Remove a language from the "Preferred language order"
- How does java.util.EnumSet<E>
- Shut down list of servers given in a
- Does adult neurogenesis occur only in the olfactory bulb and the hippocampus?

executing the codes has 16GB of HAM).

In Neo4j GUI settings, Database Configuration, Server Configuration and Java VM Options files, has the default values.

Is "user-select: none" bad UX?

Can a plane fly backward if its

() Make subscript size smaller (always)

Name for a device purposefully put together from faulty parts

The Programming Language Quiz

🔞 Can a Glaive be stowed in a Ruby

As a professional photographer, how

compromise overall image quality?

Why do we still use keys to start

prop's in reverse?

& Noun form of "extant"?

Scabbard?

executed

Frank?

How to ask dumb questions

can one handle a wedding photographer being rude or demanding in a way that will

cars? why not passwords?

How to show pagination "go to page" text box?

Approximation of Borel sets by a countable collection of majorants

from Windows 10?

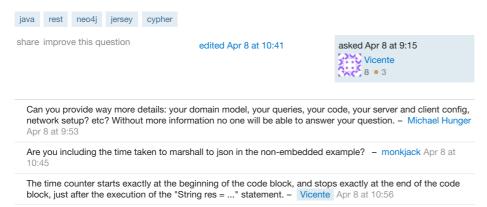
How do I remove Candy Crush Saga

S Does Lebanon ban the diary of Anne

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

Thank you again.

add a comment



Know someone who can answer? Share a link to this question via email, Google+, Twitter, or Facebook.

Your Answer



Sign up or log in



Post as a guest



Post Your Answer

By posting your answer, you agree to the privacy policy and terms of service.

Browse other questions tagged java rest neo4j jersey cypher or ask your own question.

question feed

tour help blog chat data legal privacy policy work here advertising info mobile contact us feedback

TECHNOLOGY

LIFE / ARTS

CULTURE / RECREATION

SCIENCE

OTHER

Stack Overflow	Programmers	Database	Photography	English Language &	Mathematics	Stack Apps
Server Fault	Unix & Linux	Administrators Drupal Answers	Science Fiction & Fantasy	Usage Skeptics	Cross Validated (stats)	Meta Stack Exchange
Super User	Ask Different (Apple)	SharePoint	Graphic Design	Mi Yodeya (Judaism)	Theoretical Computer	Area 51
Web Applications	WordPress	User Experience	Movies & TV	Travel	Science	Stack Overflow Careers
Ask Ubuntu	Development	Mathematica	Seasoned Advice	Christianity	Physics	
Webmasters	Geographic Information Systems	Salesforce	(cooking)	Arqade (gaming)	MathOverflow	
Game Development	Electrical Engineering	ExpressionEngine®	Home Improvement	Bicycles	Chemistry	
TeX - LaTeX	Android Enthusiasts	Answers	Personal Finance & Money	Role-playing Games	Biology	
	Information Security	more (13)	Academia	more (21)	more (5)	
			more (9)			

site design / logo © 2015 Stack Exchange Inc; user contributions licensed under <u>cc by-sa 3.0</u> with <u>attribution required</u>