stackoverfloooooooow

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**   ✕

return the graph structure of a Neo4j cypher query using jquery

asked   4 months ago
viewed   246 times
active   4 months ago

2

based on The Neo4j docs, executing:

```
:POST /db/data/transaction/commit
  {"statements":[{"statement":"MATCH path = (n)-[r]->(m) RETURN path",
                 "resultDataContents":["graph","row"]}]}
```

in the neo4j browser returns the graph structure plus the rows. I wonder how can I specify
("resultDataContents":["graph","row"]) in a jQuery ajax request. I have tried this which
doesn't work:

```
var request = $.ajax({
    type: "POST",
    url: "http://localhost:7474/db/data/cypher",
    accepts: { json: "application/json" },
    dataType: "json",
    contentType:"application/json",
    data: JSON.stringify({ "query" : "MATCH (n)--(m) RETURN n,m LIMIT 2", "params":
});
```

Essentially I want to build a neo4j browser clone where I can submit queries and receive the
results and perhaps visualize them.

jquery   ajax   neo4j

share improve this question   edited Apr 3 at 23:02   asked Apr 3 at 22:38
     ▦ MostafaMV
     486 ● 3 ● 15

add a comment

2 Answers

active   oldest   **votes**

3

The result data formats are only available through the cypher http transactional endpoint :
http://neo4j.com/docs/stable/rest-api-transactional.html#rest-api-return-results-in-graph-format

Which is the one used by the neo4j browser. Notice the difference between the two urls you
mention.

share improve this answer   answered Apr 3 at 22:50
     📷 Christophe Willemsen
     5,115 ● 1 ● 4 ● 17

> Thanks. How can I send an XHR to those endpoints ? How does Neo4j Browser do it ? Can you please
> explain a bit more ? – MostafaMV   Apr 3 at 23:00

> 2   RTFM mate, this is just the data sent that is slightly different from the legacy Cypher endpoint. The json data
> looks like this (as mentioned in the documentation) { "statements" : [{ "statement" : "CREATE (bike:Bike {
> weight: 10 }) CREATE (frontWheel:Wheel { spokes: 3 }) CREATE (backWheel:Wheel { spokes: 32 })
> CREATE p1 = (bike)-[:HAS { position: 1 }]->(frontWheel) CREATE p2 = (bike)-[:HAS { position: 2 }]->
> (backWheel) RETURN bike, p1, p2", "resultDataContents" : ["row", "graph"] }] } – Christophe Willemsen
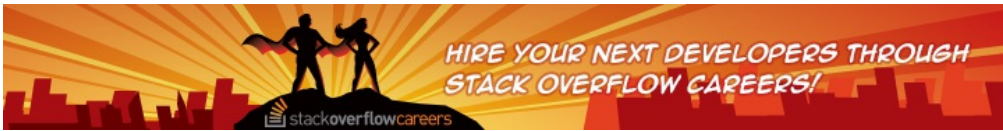> Apr 3 at 23:10

add a comment

Related

0   Neo4j - Cypher read-write-return query

3   Cypher query to list all disconnected graphs Neo4j graph DB?

3   How to query neo4j graph with jQuery

1   Neo4j - cypher query optimization

0   Neo4j Cypher query fails and return with an Unknown Error

2   Executing a Cypher query on Neo4j using jQuery

1   Construct NEO4J Cypher Graph Query to show intermediate nodes in path

0   How to batch cypher queries in neo4j

0   Is it possible to query a Neo4J db using Cypher, via the REST API, and return the URI of a node?

1   Neo4J cypher query for "inherited" terms

Hot Network Questions

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

💰 Do companies only pay dividends if they are in profit?

▲

0

▼

✓

Here is the whole procedure from query to obtaining the nodes and links of the graph.

Note that the neo4j docs (Converting Neo4j Query Results to D3 JSON) has an error : replace `start` with `source` and `end` with `target` if you want to use the graph for force directed layout.

```javascript
// The query
var query= {"statements":[{"statement":"MATCH p=(n)-->(m)<--(k),(n)--(k) RETURN p
    "resultDataContents":["graph","row"]}]};

//the helper function provided by neo4j documents
function idIndex(a,id) {
    for (var i=0;i<a.length;i++) {
        if (a[i].id == id) return i;}
    return null;
}
// jQuery ajax call
var request = $.ajax({
    type: "POST",
    url: "http://localhost:7474/db/data/transaction/commit",
    accepts: { json: "application/json" },
    dataType: "json",
    contentType:"application/json",
    data: JSON.stringify(query),
    //now pass a callback to success to do something with the data
    success: function (data) {
        // parsing the output of neo4j rest api
        data.results[0].data.forEach(function (row) {
            row.graph.nodes.forEach(function (n) {
                if (idIndex(nodes,n.id) == null){
                    nodes.push({id:n.id,label:n.labels[0],title:n.properties.name}
                }
            });
            links = links.concat( row.graph.relationships.map(function(r) {
                // the neo4j documents has an error : replace start with source an
                return {source:idIndex(nodes,r.startNode),target:idIndex(nodes,r.e
            }));
        });
        var graph = {nodes:nodes, links:links};

        // Now do something awesome with the graph!

    }
```

share improve this answer

answered Apr 4 at 15:53

MostafaMV
486 ● 3 ● 15

add a comment

Your Answer

B *I* 🔗 ❝❝ {} 🖼 ☰ ☰ ☰ ☰ ↶ ↷

Not the answer you're looking for? Browse other questions tagged `jquery` `ajax` `neo4j` or ask your own question.

🔶 question feed

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