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Cypher query to return nested data hierarchically



(:Dot)-[:CONTAINS]->(:Dot)

3

Not every dot has a container and also there are no loops. Atm a dot can only be contained by one other dot. So we are basically talking about trees

Now I would like to use Neo4j to retrieve the data and return it hierarchally (by containers):

```
[
  {"id": 1, "contains": [
    {"id": 3},
    {"id": 4, "contains": [
      {"id": 6},
    ]},
  ]},
  {"id": 2, "contains": [
    {"id": 5}
  ]}
]
```

The query shouldn't use a fixed depth.

Atm I only have this, and I'm really not sure what my options are concerning iterating a path.

```
MATCH (d:Dot)
OPTIONAL MATCH p = d-[:CONTAINS*]->(d2:Dot)
RETURN d.id
```

tree neo4j cypher

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asked Apr 6 at 10:55



Brewer Gorge

272 1 15

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I'm pretty sure this isn't possible currently with Cypher (somebody please correct me if I'm wrong). Cypher is good at taking subgraph matches and turning them into tables, but it doesn't do recursive-type querying.

For this sort of thing I think you'd need to work through the Java APIs directly. Either by interfacing with Java with your language of choice, or by creating an [unmanaged extension](#) to have Neo4j return the data for you in JSON (or whatever format you'd like)

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answered Apr 6 at 12:28



Brian Underwood

4,364 4 18

asked 4 months ago

viewed 21 times

active 4 months ago

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