

cypher 2.2 cost-planner & write ops

2 posts by 2 authors  



Thomas Baum

Apr 12



First at all, you (the neo-developers) did a great job in 2.2!

The new cypher cost-planner is amazing. Executing a query rule-based takes 16 seconds, and in the new cost-based planner it's down to <1 second. AWESOME!!

But there is one little thing. I try to mix writing operations and read-ops, but it seems not to use the cost-planner?

```
db.execute("CYPHER 2.2 PLANNER COST " +
    "MATCH (rundgangVorlage) WHERE id(rundgangVorlage)={
rundgangVorlage} " +
    "MATCH (rundgangVorlage)-[:BEREICH]->(:Bereich)-
[:FRAGE*1..]->(:Frage)<-[:PRUEFEN]-(pruefNode:Pruefung) " +
    "MATCH (rundgangVorlage)<-[:IN_RUNDGANG]-()-
[:HAS_ORT*0..]->()-[:PRUEFEN]->(pruefNode) " +
    "WITH pruefNode " +
    "MATCH (rundgang) WHERE id(rundgang)={rundgang} " +
    "MERGE (rundgang)<-[:AKTIV]-(pruefNode) " +
    "RETURN count(pruefNode) as count",
    map("rundgangVorlage", asNodeId(), "rundgang",
rundgangNode.getId()));
```

doing the write operation externally like

```
db.execute("CYPHER 2.2 PLANNER COST " +
    "MATCH (rundgangVorlage) WHERE id(rundgangVorlage)={
rundgangVorlage} " +
    "MATCH (rundgangVorlage)-[:BEREICH]->(:Bereich)-
[:FRAGE*1..]->(:Frage)<-[:PRUEFEN]-(pruefNode:Pruefung) " +
    "MATCH (rundgangVorlage)<-[:IN_RUNDGANG]-()-
[:HAS_ORT*0..]->()-[:PRUEFEN]->(pruefNode) " +
    "RETURN pruefNode ",
    map("rundgangVorlage", asNodeId()))
    .columnAs("pruefNode")
    .forEachRemaining(node -> ((Node)node).
createRelationshipTo(rundgangNode, RelTypes.AKTIV));
```

works great. any ideas?

cheers, Thomas

sorry for the german-cypher, just copied it from real code ;)



Axel

Apr 12



Hi Thomas,

FWIK, write ops (read-write and write-only) are not yet handled by Ronja, see this statement from the "Future work" section of this great blog post: "We shall also be integrating Ronja into the read-write and write-only queries so that they execute much more rapidly in the future."

Source: <http://neo4j.com/blog/introducing-new-cypher-query-optimizer/>

Cheers

Axel

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