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Cypher query gives java.lang.OutOfMemoryError

asked   4 months ago

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3

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When I type this query in the Neo4j shell:

```
MATCH (b:PHARMA)-[r:HAS_DONATED]->(a:DOCTOR)
WITH a,r,b, r.DECL_AVANT_MONTANT as total, COUNT(r) as count
MERGE (b)-[:RELATIONSHIP {
totalDECL: total,
numberDECL: count
}]->(a);
```

I receive this message:

```
Error occured in server thread; nested exception is: java.lang.OutOfMemoryError: Jav
```

Any idea on how to get around this?

java   neo4j   cypher

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<> edited Mar 31 at 13:56
Marc
2,194 ● 6 ● 13 ● 28

asked Mar 31 at 13:54
jvilledieu
337 ● 1 ● 10

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What is the sense of `COUNT(r) as count` ? The result will be always **1** because you use `r` in `WITH` clause. – Richard Günzl Mar 31 at 14:05

PHARMA nodes and DOCTOR nodes can have multiple HAS_DONATED relationships. I'm trying to create a single relationship that sums it up. It has to contain the number of HAS_DONATED relationships and the sum of the donations amount. Is that clear? – jvilledieu Mar 31 at 14:07 ✎

2   If you run this query: `MATCH (b:PHARMA)-[r:HAS_DONATED]->(a:DOCTOR) WITH a,r,b, r.DECL_AVANT_MONTANT as total, COUNT(r) as count RETURN count(*)` you'll see that you would MERGE *a lot* of data, that's why your transaction size fills all available heap and blows up – Michael Hunger Mar 31 at 19:37

Thanks Michael. Is there any thing I can do? – jvilledieu Apr 2 at 11:40

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2 Answers

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✔

I solved my problem by using this query:

```
USING PERIODIC COMMIT 2000
LOAD CSV WITH HEADERS FROM "file:c:/sunshine.anonymes.csv" AS line
FIELDTERMINATOR ','
MATCH (b:DOCTOR {ID: line.BENEF_PS_ID})
MATCH (a:PHARMA {NAME: line.LABO})
MERGE (a)-[r:IS_LINKED_TO]->(b)
ON CREATE SET r.numberDECL = 1, r.totalDECL = toINT(line.DECL_AVANT_MONTANT)
ON MATCH SET r.numberDECL = r.numberDECL +1, r.totalDECL = line.totalDECL + r.totalD
```

Basically, I'm creating the relationship during the csv import and updating the properties throughout the process.

Thank you for your help guys!

share improve this answer

answered Apr 2 at 16:18
jvilledieu

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I don't know if it helps. But here is repaired Cypher query for your case:

1

```
MATCH (b:PHARMA)-[r:HAS_DONATED]->(a:DOCTOR)
WITH a, b, SUM(r.DECL_AVANT_MONTANT) as total, COUNT(r) as count
MERGE (b)-[:RELATIONSHIP {
totalDECL: total,
numberDECL: count
}]->(a);
```

share improve this answer

edited Apr 1 at 11:25

answered Mar 31 at 14:12

Richard Günzl
104 ● 5

I'm going to try it! – jvilledieu Apr 1 at 7:32

Still same error. – jvilledieu Apr 2 at 11:39

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