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Neo4j aggregation and sum

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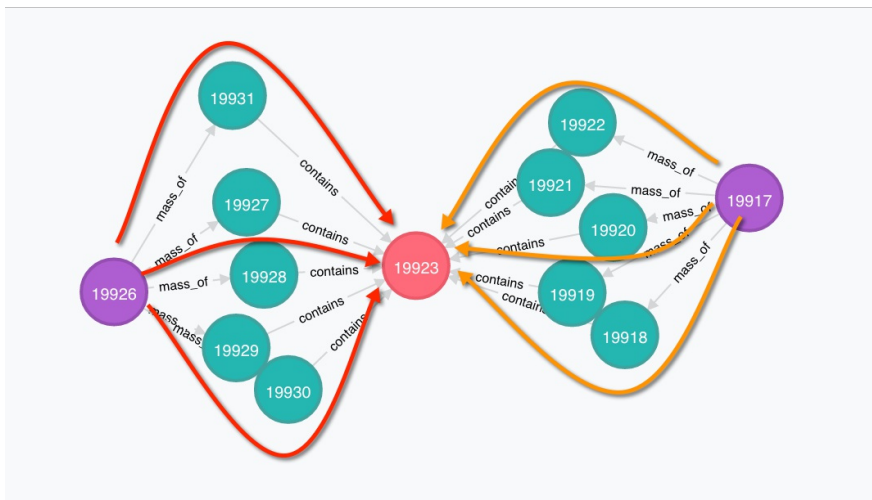
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I apologies if my question is trivial i am a NOOB at neo4j.

I am trying to write a cypher query that will find all the purple nodes desc order from the value of [sum (mass_of * contains) for all paths going from purple to red]

example: In picture it would be [(mass_of * contains)] for all red paths then sum all the red paths.

I started with this query but i m not sure where to go from here.

```
MATCH p0=(p:Purple)-[m:mass_of]->(g:Green)-[c:contains]->(r:red {name: "something"})
WITH m, c.amount * m.amount as total_per_path
WITH total_per_path, reduce( total=0, node IN collect(m) | total + total_per_path) AS
RETURN total_something as TOTAL, total_per_path as PER_TOTAL_PATH
```

...

thanks for any help.


neo4j cypher

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edited Apr 2 at 1:05

 FrobberOfBits
8,397 ● 7 ● 29

asked Apr 2 at 1:02

 user618589
33 ● 6

So it seems like your query is mostly there, but I don't understand why you're doing that `collect` on the basis of `m` - that bit is confusing because `m` is a relationship, but then you're saying `node in collect(m)` which doesn't really make sense, and then in the expression after it you're not using `node`. So it seems like `total_per_path` mostly has what you want....why not sum all of the `total_per_path` variables? – FrobberOfBits Apr 2 at 1:08

I did the sum on `total_per_path` but that sums all the oranges and all the red paths. I want to have the sum for all the red paths and the sum for all the orange paths. I was trying to collect by `m` because it's represents a path (but that does not seem quite right) – user618589 Apr 2 at 1:25

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This should do it

1

```
MATCH (p:Purple)-[m:mass_of]->(g:Green)-[c:contains]->(r:red {name: "something"})
RETURN p, SUM(c.amount * m.amount) AS total
ORDER BY total DESC
```

You can also collect the m,g or c in return if you need that nodes/relationships.

share improve this answer

answered Apr 2 at 9:23

frant.hartm

3,419 1 8 23

Thanks that works. – user618589 Apr 2 at 13:56

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2 [Return an aggregated columnar result set in Neo4j](#)

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