



jexp closed this Apr 13, 2015



rsk700 commented Apr 13, 2015

did you create an index on :page(category) ? otherwise it will have to scan all nodes and for each node do the IN check (which is not optimized using a Set yet)

yes I know, I didn't create index on purpose, and yes both queries scan all nodes, but second query makes it much much slower

The second query executes in less than 40ms for me, please also note you misspelt the "category-xxx" values for everything > 1

I did not misspell, it made on purpose, all queries return same value "1", "cat-x" is fake values to show issue, only one page "category-1" is counted

Can you say which neo4j version you was using? I have this performance issue on 2 servers.



rsk700 commented Apr 13, 2015

@jexp you misunderstood issue please run queries exactly as I provided, there is definitely performance issue in comparing parameter with list

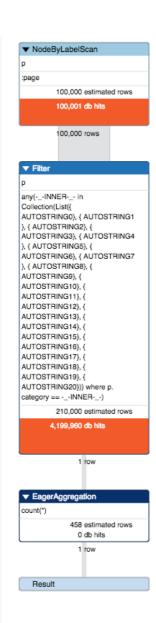


jexp commented Apr 13, 2015

Collaborator

Sure, I said so "IN comparison" across all nodes without an index is **not** an optimized operation, and if you do it for 100k nodes it takes a bit (4s on my machine).

And as you can see in the profile it creates quite a bit of db-hits:





rsk700 commented Apr 13, 2015

Thanks for explanation, I see.

Can it be optimization request ;-) ? My point here this operation possible to make just once, from what I see neo4j runs query again and again separately for each member of list:

```
2 * 100000 * 21 = 4 200 000 db hits
```

but it can be one operation similar to this:

```
match (p:page) where p.category =~ 'category-1|cat-1|cat-2|cat-3|cat-4|cat-5|cat-6|cat-7|cat-8|cat-9|cat-return count(*)
```

this gives 200 000 db hits



apivaral commented Apr 13, 2015

@jexp any plans to make "IN comparison" an optimised operation?

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