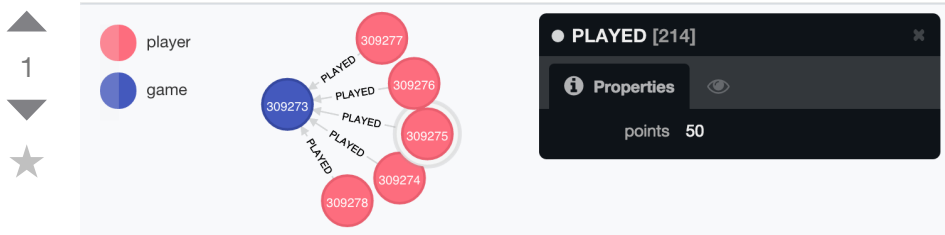


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## How to calculate a rank in Neo4j



I am having two types of nodes (**game & player**) and one relationship (**PLAYED**). **PLAYED** relationship is having a property 'points'.

### Sample Data:

Player (309274) scored 10 points  
 Player (309275) scored 20 points  
 Player (309276) scored 30 points  
 Player (309277) scored 40 points  
 Player (309278) scored 50 points

I want to calculate a **rank of a Player** 309278 i.e. 5 from the cypher query. Can anybody help me here to generate cypher query?

neo4j

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edited Apr 14 at 7:58



Chris Skardon  
2,691 ● 14 ● 30

asked Apr 14 at 6:23



Avinash  
449 ● 1 ● 5 ● 17

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```
MATCH (p:Player)-[pl:PLAYED]->(:Game {id:{game-id}})
RETURN p.name
ORDER BY pl.score desc
```

then the row-number is your rank, which your client can compute easily

to access a certain rank:

```
MATCH (p:Player)-[pl:PLAYED]->(:Game {id:{game-id}})
RETURN p.name
ORDER BY pl.score desc
SKIP 4 LIMIT 1
```

to compute the rank, you'd probably, do something like this (not efficient):

```
MATCH (p:Player)-[pl:PLAYED]->(:Game {id:{game-id}})
WITH p,pl
ORDER BY pl.score desc
// create a collection
WITH collect(p) as players
UNWIND reduce(acc=[],idx in range(0,size(players)-1) |
acc + [idx+1,players[idx]]) as player_rank
RETURN player_rank
```

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answered Apr 14 at 7:42

asked 4 months ago

viewed 38 times

active 4 months ago

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