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In my Spring Boot/Neo4j application I have a following entities:

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# Neo4j one-to-many fetch data



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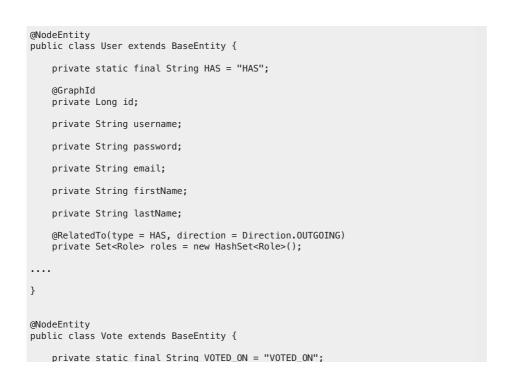
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```
private final static String VOTED_FOR = "VOTED_FOR";
private static final String CREATED_BY = "CREATED_BY";

@GraphId
private Long id;

@RelatedTo(type = VOTED_FOR, direction = Direction.OUTGOING)
private Decision decision;
```

and I have a following SDN repository method:

In the result I have a list of Vote.

On the client I'd like to display list of these votes with not only user(author) Id but and with author username also.

How to fetch based on the query above Vote.author.username and Vote.author.id and do not fetch all other information from User entity associated with Vote entity? Anyway, right now I only have Vote.author.id value.

#### **EDITED:**

following query

 $@Query("MATCH (d:Decision) <-[:VOTED_FOR] - (v:Vote) - [:VOTED_ON] -> (c:Criterion) \ \ WHERE i List < Vote> get Votes For Decision On Criterion (@Param ("decision Id") Long decision Id, @Param ("$ 

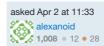
doesn't work with a following exception:

```
org.springframework.dao.InvalidDataAccessApiUsageException: [Assertion failed] — ent at org.springframework.data.neo4j.support.ParameterCheck.notNull(ParameterCheck. at org.springframework.data.neo4j.support.Neo4jTemplate.projectTo(Neo4jTemplate. at org.springframework.data.neo4j.support.conversion.EntityResultConverter.doCon at org.springframework.data.neo4j.conversion.DefaultConverter.convert(DefaultCon at org.springframework.data.neo4j.support.conversion.EntityResultConverter.conve at org.springframework.data.neo4j.conversion.QueryResultBuilder$1.underlyingObje
```

neo4j cypher spring-data-neo4j

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edited Apr 2 at 14:37



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In SDN3 you cannot just create a map and have it pretend to be a NodeEntity, that's what @QueryResult annotated DTOs are for. See the docs. – Michael Hunger Apr 2 at 18:41

I'd like to avoid having User as a member of Vote and at the same time as a separated entity in @QueryResult (Vote, User).. I think that this is redundant. – | alexanoid | Apr 2 at 18:48

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### 2 Answers

Try this with a DTO (can also be an interface with getters):





```
@QueryResult
class VoteView {
    String id;
    Double weight;
    String description;
    String decisionId;
    String criterionId;
    String authorId;
    String authorName;
}
@Query("MATCH (d:Decision)<-[:VOTED FOR]-(v:Vote)-[:VOTED ON]->(c:Criterion) WHERE i
```

List<VoteView> getVotesForDecisionOnCriterion(@Param("declsionId") Long decisionId,

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answered Apr 2 at 18:46

Michael Hunger

25.2k • 2 • 21 • 41

Thanks, works fine but with a following query(returns separeted columns, not map) @Query("MATCH (d:Decision)<-[:VOTED\_FOR]-(v:Vote)-[:VOTED\_ON]->(c:Criterion) WHERE id(d) = {decisionId} AND id(c) = {criterionId} WITH v, d, c MATCH v-[:CREATED\_BY]->(u:User) RETURN v.id as voteld, d.id as decisionId, c.id as criterionId, v.weight as weight, v.description as description, u.id as authorId, u.username as authorName, v.createDate as createDate, v.updateDate as updateDate") List<AuthorVote>

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I can't help with the spring but does this cypher get you what you want?

0

```
MATCH (d:Decision) <-[:VOTED_FOR] - (v:Vote) - [:VOTED_ON] -> (c:Criterion)
WHERE id(d) = {decisionId}
   AND id(c) = {criterionId}
WITH v
MATCH v - [:CREATED_BY] -> (u:User)
RETURN {id: v.id
    , weight: v.weight
    , `author.id`: u.id
    , `author.username`: u.username
    ... } as v
```

share improve this answer

edited Apr 2 at 14:10



Thanks, but it will return two separated entities - Vote and String. But I'm looking for a solution, how to populate v.author.username with u.username from your query and return only "v" - alexanoid Apr 2 at 14:06

i updated the answer and combined the properties into a single map... - not v though - Dave Bennett Apr 2 at 14:11

1 damn computers... so close...is one of the items null (i.e. returning a null value with a key in the map)? If that is the problem you could coalesce the result or add a case statement to eliminate that key alltogether – Dave Bennett Apr 2 at 14:31

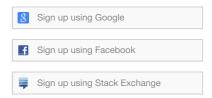
I have updated my question body.. added full Vote class declaration, new query and error stacktrace – alexanoid Apr 2 at 14:41

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