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Best solution for multiple queries in a limited time

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▲ For a MORPG Hack'n'Slash game i am currently using Neo4j with a pattern like this :

1 ▼ I have a Neo4J connector class, creating my connection and implementing Singleton and this instance is used by every xxxMapper classes, calling Neo4jConnetor.getInstance().query(String query) which returns the iterator of the queryresult.

★ 2 Atm I'm asking myself a question, the game will have a ton of queries per second (like 5 per player per second). So I don't know, in terms of perfs, which pattern to use, if I should keep using my Singleton system or using another one like a pool of Neo4jConnector or anything else i don't know yet.

Here is the connector class :

```
public class Neo4jConnector{

    private String urlRest;
    private String url = "http://localhost:7474";
    protected QueryEngine<?> engine;
    protected static Neo4jConnector INSTANCE = new Neo4jConnector();

    private Neo4jConnector(){
        urlRest = url+"/db/data";
        final RestAPI graphDb = new RestAPIFacade(urlRest);
        engine = new RestCypherQueryEngine(graphDb);
    }

    public static Neo4jConnector getInstance(){
        if (INSTANCE == null)
        {
            INSTANCE = new Neo4jConnector();
        }
        return INSTANCE;
    }

    @SuppressWarnings("unchecked")
    public Iterator<Map<String, Object>> query(String query){
        QueryResult<Map<String, Object>> row = (QueryResult<Map<String, Object>>) engine.query(query);
        return row.iterator();
    }
}
```

and an example call of this class :

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and an example call of this class .

```
Iterator<Map<String, Object>> iterator = Neo4jConnector.getInstance().query("optiona
```

java neo4j

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asked Apr 14 at 8:24



Supamiu

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1 Answer



Neo4j's embedded GraphDatabaseService is not pooled and threadsafe.

2

I would not recommend RestGraphDatabase and friends, because it is slow and outdated.



Just use **parameters** instead of literal strings and **don't use optional match** to start a query.



If you look for faster access look into the JDBC driver (which will be updated soonish).

share improve this answer

answered Apr 14 at 11:34



Michael Hunger

25.2k 2 21 41

Are there any tutorials on how to create a reliable connector with JDBC and Neo4J. Also, i use optional match because i want to get null if this returns nothing – [Supamiu](#) Apr 15 at 17:12

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2 querying and converting a neo4j query result to multi dimensional @QueryResult object

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