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Trouble understanding Neo4j JDBC Transaction

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I am pretty sure that this is a silly question, but I am totally confused here. I am used to code with neo4j-embedded-api and very new to neo4j-jdbc. I want to use Neo4j-JDBC. My Neo4J 2.1.7 instance is hosted on another computer which is accessible via 192.168.1.16:7474

I can create simple programs and write cypher queries and execute them. However, I would like to wrap all of them in a transactional block. Something like this:

```
try(Transaction tx = this.graphDatabaseService.beginTx())
{
    ResultSet resultSet = connect.createStatement().executeQuery(cypherQuery);
    tx.success();
}
```

My issue is that I do not know how to get the object of GraphDatabaseService from this:

```
Neo4jConnection connect = new Driver().connect("jdbc:neo4j://192.168.1.16:7474", new
```

Once I have the GraphDatabaseObject, I am assuming that I can use the transactional block like neo4j-embedded-api.

[My Objective] What I am trying to attempt here is to have multiple queries to be sent over the network in a nested-transaction block and if any one of them fails, to rollback all of them.

My failed attempts till now:

I tried to read the neo4j-jdbc project hosted on github and from their test case ([link here](#)) I am assuming that to put a code in transaction block you have to `connect.setAutoCommit(false);` and then use `commit()` and `rollback()` functions respectively.

java transactions neo4j

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asked Mar 29 at 23:08



Rash

818 1 6 17

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2 Answers



1



If you don't know JDBC then please read up on it, it's a remote API which works by executing statement (Cypher in this case) against a remote API.

There is no GraphDatabaseService object. Only statements and parameters.

For tx handling you either have one tx per statement or if you set `connection.setAutoCommit(false);` then the transaction runs until you call `connection.commit()`

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answered Mar 29 at 23:59



Michael Hunger

25.2k 2 21 41

Hi. One more doubt. Since you contributed to neo4j-jdbc, in transaction test ([github.com/neo4j-contrib/neo4j-jdbc/blob/master/src/test/java/...](#)) your begin() and done() method are using gdb (GraphDatabaseService Object). How is that ? PS: Good job on neo4j-jdbc. :) - [Rash](#) Mar 30 at 0:22

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Just to add to Michael Hunger's answer, I made this program which does multiple transactions and rolls back them. This is a very easy program. Hope it helps other noobies like me.

```
package rash.experiments.neo4j.jdbc;

import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.Properties;

import org.neo4j.jdbc.Driver;
import org.neo4j.jdbc.Neo4jConnection;

public class JdbcTest
{
    public Neo4jConnection connect;

    public JdbcTest() throws SQLException
    {
        this.connect = new Driver().connect("jdbc:neo4j://192.168.1.16:7474", new
    }

    public static void main(String args[])
    {
        JdbcTest test = null;

        try
        {
            test = new JdbcTest();
            test.connect.setAutoCommit(false);

            long user1 = test.createUser("rash");
            long user2 = test.createUser("honey");
            test.createRelationship(user1, user2);

            test.connect.commit();
        }
        catch(SQLException sqlException)
        {
            try
            {

```

This program will never commit because method `createRelationship()` throws an error and the program never gets a chance to commit. Instead it rolls back.

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answered Mar 30 at 2:01



Rash

818 ● 1 ● 6 ● 17

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0 neo4j transaction not rolling back

1 Neo4j
TransactionFailureException : Transaction was marked as successful, but unable to commit transaction so rolled back




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