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

java transactions neo4j

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asked Mar 29 at 23:08

Rash
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### 2 Answers

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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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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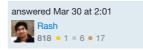


Just to add to Michael Hunger's answer, I made this program which does multiple transactions and rolls back them. This is a very easy program. Hope it helps other noobies like me.

```
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 <code>createRelationship()</code> throws an error and the program never gets a chance to commit. Instead it rolls back.

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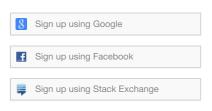
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