



```
import \ org.neo4j.graphdb.GraphDatabaseService;\\
import org.neo4j.graphdb.Node;
import org.neo4j.graphdb.RelationshipType;
import org.neo4j.graphdb.ResourceIterable;
import org.neo4j.graphdb.ResourceIterator;
import org.neo4j.graphdb.Transaction;
import org.neo4j.graphdb.factory.GraphDatabaseFactory;
import org.neo4j.graphdb.traversal.TraversalDescription;
import org.neo4j.graphdb.traversal.Traverser;
import org.springframework.data.neo4j.core.GraphDatabase;
import org.springframework.data.neo4j.rest.SpringCypherRestGraphDatabase;
import\ org.spring framework.data.neo 4 j.rest. Spring Rest Graph Database;
import\ org. spring framework. data.neo 4 j. support. Delegating Graph Database;
@SuppressWarnings("deprecation")
public class TestBoth {
  private enum Rels implements RelationshipType {
   RR,
   RK
  @Test
 public void testEmbedded() {
    GraphDatabaseService embedded = new GraphDatabaseFactory().newEmbeddedDatabase( "db");
    GraphDatabase database = new DelegatingGraphDatabase(embedded);
    test(database):
 }
  public void testRemoteOld(){
    GraphDatabase database = new SpringRestGraphDatabase("http://localhost:7474/db/data");
    test(database);
  @Test
  public void testRemoteNew(){
    GraphDatabase database = new SpringCvpherRestGraphDatabase("http://localhost:7474/db/d
```

```
test(database);
  public Map<String, Object> toMap(String key, String value) {
    Map<String, Object> m = new HashMap<>();
    m.put(key, value);
   return m:
  public void test(GraphDatabase database) {
    try (Transaction tx = database.beginTx()) {
      database.queryEngine().query("match ()-[r]-() delete r", null);
      database.queryEngine().query("match (n) delete n", null);
     tx.success();
   Node r1, r2, r3;
   Node k1, k2, k3;
    try (Transaction tx = database.beginTx()) {
      r1 = database.createNode(toMap("name", "r #1"), Arrays.asList("r"));
r2 = database.createNode(toMap("name", "r #2"), Arrays.asList("r"));
      r3 = database.createNode(toMap("name", "r #3"), Arrays.asList("r"));
      database.createRelationship(r1, r2, Rels.RR, Collections.EMPTY_MAP);
      database.createRelationship(r2, r3, Rels.RR, null);
      database.createRelationship(r1, r3, Rels.RR, null);
      k1 = database.createNode(toMap("name", "k #1"), Arrays.asList("k"));
      k2 = database.createNode(toMap("name", "k #2"), Arrays.asList("k"));
      k3 = database.createNode(toMap("name", "k #3"), Arrays.asList("k"));
      database.createRelationship(k1, r1, Rels.RK, null);
      database.createRelationship(k2, r2, Rels.RK, null);
      database.createRelationship(k3, r3, Rels.RK, null);
      database.createRelationship(k1, r3, Rels.RK, null);
      tx.success();
    try (Transaction tx = database.beginTx()) {
      TraversalDescription description = database.traversalDescription()
        .breadthFirst()
        .relationships(Rels.RK, Direction.OUTGOING)
        .relationships(Rels.RR, Direction.OUTGOING);
      Traverser traverser = description.traverse(k1);
      ResourceIterable<Node> nodes = traverser.nodes();
      List<String> names = new ArrayList<>();
      try (ResourceIterator<Node> iterator = nodes.iterator()) {
        while (iterator.hasNext()) {
         Node n = iterator.next():
          names.add((String)n.getProperty("name"));
      assertEquals(4, names.size());
      tx.success();
 }
}
```



jexp commented Apr 16, 2015

Collaborator

Yes that is to be expected.

The RestGraphDatabases have only available what the REST API offers, which is a tiny subset of the real traversal API.

If you want to fully use the traversal API and not Cypher over the wire, I recommend writing a server extension that executes your embedded code and provides the results as a custom http endpoint, you can find examples in the Manual and e.g. on Max' blog



jexp closed this Apr 16, 2015

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