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Embedded Neo4j delete node and Lucene legacy indexing - node_auto_indexing out of sync issue



I'm trying to delete node with fields in node_auto_indexing . When I try to delete node using repository.delete(id) . Right after that I'm trying to get deleted Node by its id and I get following exception:



java.lang.IllegalStateException: This index (Index[__rel_types__,Relationship]) has at org.neo4j.index.impl.lucene.LuceneTransaction\$DeletedTxDataBoth.illegalStateE at org.neo4j.index.impl.lucene.LuceneTransaction.pDeletedTxDataBoth.removed(Lucen at org.neo4j.index.impl.lucene.LuceneTransaction.remove(LuceneTransaction.java:1 at org.neo4j.index.impl.lucene.LuceneXaConnection.remove(LuceneXaConnection.java org.neo4j.index.impl.lucene.LuceneIndex.remove(LuceneIndex.java:215) at org.springframework.data.neo4j.support.typerepresentation.AbstractIndexBasedT at org.springframework.data.neo4j.support.typerepresentation.AbstractIndexBasedT at org.springframework.data.neo4j.support.mapping.EntityRemover.removeRelationsh at org.springframework.data.neo4j.support.mapping.EntityRemover.removeNode(Entit at org.springframework.data.neo4j.support.mapping.EntityRemover.removeNodeEntity at org.springframework.data.neo4j.support.mapping.EntityRemover.remove(EntityRem org.springframework.data.neo4j.support.Neo4jTemplate.delete(Neo4jTemplate.jav org.springframework.data.neo4j.repository.AbstractGraphRepository.delete(Abst org.springframework.data.neo4j.repository.data.data.neo4j.repository.data.data.neo4j.repository.data.data.neo4j.repository.data.data.neo4j.reposit

Also, when I'm trying to delete node via Cypher query

I'm getting another exception after looking this deleted Node by its Id:

java.lang.IllegalStateException: No primary SDN label exists .. (i.e one starting wi at org.springframework.data.neo4j.support.typerepresentation.LabelBasedNodeTypeR at org.springframework.data.neo4j.support.typerepresentation.LabelBasedNodeTypeR at org.springframework.data.neo4j.support.mapping.TRSTypeAliasAccessor.readAlias at org.springframework.data.convert.DefaultTypeMapper.readType(DefaultTypeMapper at org.springframework.data.convert.DefaultTypeMapper.getDefaultedTypeToBeUsed(Dat org.springframework.data.convert.DefaultTypeMapper.readType(DefaultTypeMapper at org.springframework.data.convert.DefaultTypeMapper.readType(DefaultTypeMapper at org.springframework.data.neo4j.support.mapping.Neo4jEntityConverterImpl.read(Dato org.springframework.data.neo4j.support.mapping.Neo4jEntityPersister.createEnt at org.springframework.data.neo4j.support.Neo4jTemplate.createEntityFromState(Ne org.springframework.data.neo4j.repository.AbstractGraphRepository.createEntit at org.springframework.data.neo4j.repository.AbstractGraphRepository.findOne(Abs org.springframework.data.neo4j.repository.AbstractGraphRepository.delete(Abst

How to correctly delete node that participates in Lucene Legacy Indexing node_auto_indexing ? How to remove this Node from Lucene index ?

UPDATED:

This is my Neo4jConfig:

@Configuration
@EnableNeo4jRepositories(basePackages = "com.example")
@EnableTransactionManagement
public class Neo4jConfig extends Neo4jConfiguration implements BeanFactoryAware {

asked 4 months ago

viewed 72 times

active 2 months ago

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```
@Resource
private Environment environment;
private BeanFactory beanFactory;
public Neo4jConfig() {
    setBasePackage("com.example");
@Bean(destroyMethod = "shutdown")
public GraphDatabaseService graphDatabaseService() {
    .setConfig(GraphDatabaseSettings.node_keys_indexable, "name,descri
.setConfig(GraphDatabaseSettings.node_auto_indexing, "true")
            .newGraphDatabase();
    return graphDb:
}
/**
 * Hook into the application lifecycle and register listeners that perform
 * behaviour across types of entities during this life cycle
@Bean
protected ApplicationListener<BeforeSaveEvent<BaseEntity>> beforeSaveEventAppl
    return new ApplicationListener<BeforeSaveEvent<BaseEntity>>() {
        @Override
        public void onApplicationEvent(BeforeSaveEvent<BaseEntity> event) {
            BaseEntity entity = event.getEntity();
```

Base entity for entities in the project:

```
public class BaseEntity {
    private Date createDate;
    private Date updateDate;

    public BaseEntity() {
    }

    public Date getCreateDate() {
        return createDate;
    }

    public void setCreateDate(Date createDate) {
        this.createDate = createDate;
    }

    public Date getUpdateDate() {
        return updateDate;
    }

    public void setUpdateDate(Date updateDate) {
        this.updateDate = updateDate;
    }
}
```

and the Vote entity that I tried to delete:

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```
@NodeEntity
          public class Vote extends BaseEntity {
               private static final String VOTED_ON = "VOTED_ON";
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;
               @RelatedTo(type = VOTED_ON, direction = Direction.OUTGOING)
               private Criterion criterion;
               @RelatedTo(type = CREATED_BY, direction = Direction.OUTGOING)
               private User author;
               private double weight;
               private String description;
               public Vote() {
               public Vote(Decision decision, Criterion criterion, User author, double weight
                     this.decision = decision;
                     this.criterion = criterion;
                    this.author = author;
this.weight = weight;
                     this.description = description;
               public Long getId() {
                     return id;
          lucene neo4j cypher spring-data-neo4j
          share improve this question
                                                     edited Apr 8 at 5:49
                                                                                      asked Apr 6 at 20:15
                                                                                          alexanoid 🖁
                                                                                          1,008 • 12 • 28
            Perhaps you can share how you integrated the auto_index and what your entities look like? I don't
            understand how the __rel_types__ index can ever be marked for deletion. Best to provide a GitHub project that reproduces the issue. – Michael Hunger Apr 7 at 21:24
            @MichaelHunger thanks for your answer. I have updated the question body. If this information doesn't help,
            I'll think how to create an example that reproducing the issue. - alexanoid Apr 8 at 5:31
          add a comment
1 Answer
                                                                                            active
                                                                                                     oldest
                                                                                                                votes
          Thanks to @MichaelHunger and Neo4j this issue has been fixed in Neo4j 2.2.2 and SDN 3.4.0.M1
```

answered Jun 10 at 19:57

alexanoid 1,008 • 12 • 28

Your Answer

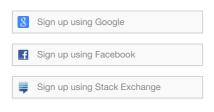
0

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