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



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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$DeletedTxDataBoth.illegalStateException
    at org.neo4j.index.impl.lucene.LuceneTransaction$DeletedTxDataBoth.removed(Lucen
    at org.neo4j.index.impl.lucene.LuceneTransaction.remove(LuceneTransaction.java:1
    at org.neo4j.index.impl.lucene.LuceneXaConnection.remove(LuceneXaConnection.java
    at 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
    at org.springframework.data.neo4j.support.Neo4jTemplate.delete(Neo4jTemplate.jav
    at org.springframework.data.neo4j.repository.AbstractGraphRepository.delete(Abst
    at org.springframework.data.neo4j.repository.AbstractGraphRepository.delete(Abst
```

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

```
@Query("MATCH ()-[r]-(p:Product) WHERE id(p) = {productId} DELETE r, p")
void deleteProduct(@Param("productId") Long productId);
```

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.LabelBasedNodeTyp
    at org.springframework.data.neo4j.support.typerepresentation.LabelBasedNodeTyp
    at org.springframework.data.neo4j.support.mapping.TrSTypeAliasAccessor.readAlias
    at org.springframework.data.neo4j.support.mapping.TrSTypeAliasAccessor.readAlias
    at org.springframework.data.convert.DefaultTypeMapper.readType(DefaultTypeMappe
    at org.springframework.data.convert.DefaultTypeMapper.getDefaultedTypeToBeUsed(D
    at org.springframework.data.convert.DefaultTypeMapper.readType(DefaultTypeMappe
    at org.springframework.data.neo4j.support.mapping.Neo4jEntityConverterImpl.read(
    at org.springframework.data.neo4j.support.mapping.Neo4jEntityPersister$CachedCon
    at org.springframework.data.neo4j.support.mapping.Neo4jEntityPersister.createEnt
    at org.springframework.data.neo4j.support.Neo4jTemplate.createEntityFromState(Ne
    at org.springframework.data.neo4j.repository.AbstractGraphRepository.createEntit
    at org.springframework.data.neo4j.repository.AbstractGraphRepository.findOne(Abs
    at 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

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```

@Resource
private Environment environment;

private BeanFactory beanFactory;

public Neo4jConfig() {
    setBasePackage("com.example");
}

@Bean(destroyMethod = "shutdown")
public GraphDatabaseService graphDatabaseService() {

    GraphDatabaseService graphDb = new GraphDatabaseFactory()
        .newEmbeddedDatabaseBuilder("target/example-test-db")
        .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 static final 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, String description) {
        this.decision = decision;
        this.criterion = criterion;
        this.author = author;
        this.weight = weight;
        this.description = description;
    }


    public Long getId() {
        return id;
    }
}
```

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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

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1 Answer

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Thanks to @MichaelHunger and Neo4j this issue has been fixed in Neo4j 2.2.2 and SDN 3.4.0.M1


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answered Jun 10 at 19:57

 alexanoid
1,008 ● 12 ● 28

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