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# Fix race condition with unique constraint in HA. 🐛

Closed

**martinfurmanski** wants to merge 1 commit into `neo4j:2.0-maint` from `martinfurmanski:2.0-fix-unique-constraint`

Conversation 4

Commits 1

Files changed 9

+529 -7



**martinfurmanski** commented Mar 25, 2015

Collaborator

Fixes a race condition where a unique constraint that was being created while a concurrent transaction violated the constraint could succeed. The constraint creation will now properly fail.

Labels

2.0

kernel

NOT READY FOR M...

Milestone

No milestone

Assignee

No one assigned

2 participants



**martinfurmanski** commented Mar 25, 2015

Collaborator

This is a back-port of test and fix from 2.2 Only needs a concrete forward merge into 2.1 and the only thing that needs to change for that is in `UniqueInMemoryIndex.java`:

```
-import org.neo4j.kernel.impl.util.PrimitiveLongIterator;  
+import org.neo4j.collection.primitive.PrimitiveLongIterator;
```



**davidegrohmann** added `kernel` `2.0` labels Mar 25, 2015



**martinfurmanski** added the `NOT READY FOR MERGE` label Mar 25, 2015



**martinfurmanski** commented Mar 25, 2015

Collaborator

Seems that there is a restriction in 2.0 that is not there anymore for 2.1:  
`closingAnOnlineIndexUpdaterMustNotThrowEvenIfItHasBeenFedConflictingData()`  
....investigation pending.



**martinfurmanski** commented Mar 26, 2015

Collaborator

Investigating it a bit, on 2.1 the restriction from above is ignored, and the same seems to apply for 2.0 as well.

The exceptions are used for control logic and the effect will thus not be crashing the database nor leaving it in an inconsistent state, but rather never taking the constraint itself online, which is fine. It is done as an internal mini transactions and is not coupled as such with the parent transaction data-wise. See the explaining text that was ported along within this commit.



**martinfurmanski** removed the `NOT READY FOR MERGE` label Mar 26, 2015



**Fix race condition with unique constraint in HA.** ...

81ed7f3



**martinfurmanski** added the `NOT READY FOR MERGE` label Mar 30, 2015



**martinfurmanski** commented Apr 1, 2015

Collaborator

Not applicable for 2.0 for various reasons.



**martinfurmanski** closed this Apr 1, 2015

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