

Metacat - Bug #2838

Search "soil" in metacat causes an exception

05/07/2007 11:25 AM - Jing Tao

Status:	Resolved	Start date:	05/07/2007
Priority:	Normal	Due date:	
Assignee:	Jing Tao	% Done:	0%
Category:	metacat	Estimated time:	0.00 hour
Target version:	Unspecified	Spent time:	0.00 hour
Bugzilla-Id:	2838		

Description

After release 1.7, we made some changes in metacat search part. I found search "datos" caused an exception:

```
[ERROR]: Exception in DBQuery.findDocuments: null [edu.ucsb.nceas.metacat.DBQuery]
java.util.ConcurrentModificationException
at java.util.AbstractList$Itr.checkForComodification(AbstractList.java:449)
at java.util.AbstractList$Itr.next(AbstractList.java:420)
at edu.ucsb.nceas.metacat.DBQuery.addRelationship(DBQuery.java:1249)
at edu.ucsb.nceas.metacat.DBQuery.handleSubsetResult(DBQuery.java:844)
at edu.ucsb.nceas.metacat.DBQuery.findResultDoclist(DBQuery.java:760)
at edu.ucsb.nceas.metacat.DBQuery.createResultDocument(DBQuery.java:410)
at edu.ucsb.nceas.metacat.DBQuery.findDocuments(DBQuery.java:307)
at edu.ucsb.nceas.metacat.DBQuery.findDocuments(DBQuery.java:234)
at edu.ucsb.nceas.metacat.MetaCatServlet.handleQuery(MetaCatServlet.java:1096)
at edu.ucsb.nceas.metacat.MetaCatServlet.handleGetOrPost(MetaCatServlet.java:644)
at edu.ucsb.nceas.metacat.MetaCatServlet.doPost(MetaCatServlet.java:294)
```

I digged around and found the problem was that there were duplicate docids in DocumentResultSet object and it caused to remove docid (key) from a hashtable mutiple times, which only had one key for a docid. The reason the object had duplicated docids was the back tracing process didn't get rid of the duplicated docids. I fixed the problem and search "datos" works.

However, search "soil" and other stuff still bring the exception. We need to fix it.

History

#1 - 05/08/2007 07:01 PM - Jing Tao

This bug was caused by the new private class ResultDocumentSet. In addRelationship method, we have Iterator docidkey which is got from a Vector docid in class ResultDocumentSet. Then there is a while loop for Iterator docidkey. However, during this while loop, if there is a beta6 doc, the docid Vector will be have remove and put operation. Those operations to Vector will cause original Iterator docidkeys be invalid. So call "docidkey.next()" will cause the exception.

Solution, rather than remove and put action to the Vector, a set() method was added to ResultDocumentSet. This method would NOT cause concurrent modification to the Vector.

#2 - 03/27/2013 02:21 PM - Redmine Admin

Original Bugzilla ID was 2838