

## Kepler - Bug #5254

### provenance database connections keep growing when using Reporting suite.

12/09/2010 05:02 PM - jianwu jianwu

<b>Status:</b>	Resolved	<b>Start date:</b>	12/09/2010
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Derik Barseghian	<b>% Done:</b>	0%
<b>Category:</b>	reporting	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	2.3.0	<b>Spent time:</b>	0.00 hour
<b>Bugzilla-Id:</b>	5254		
<b>Description</b>			
<p>Every time a window is open, or a workflow is saved, running, a separate db connection is gotten. but they are not released when a window is closed. It will cause memory usage goes up.</p> <p>We guess WorkflowRunManager.disconnect() should call SQLQueryV8.disconnect() to close the connection. Currently, SQLQueryV8.disconnect() is not called by any classes.</p> <p>If we can reuse existing connections. The performance will be better than creating and closing a new one.</p> <p>This is one stack trace for db connection when a window is open:</p> <pre>DatabaseFactory.getConnectedDatabaseType(Map&lt;String,String&gt;, String) line: 154 SQLQueryV8.&lt;init&gt;(Map&lt;String,String&gt;) line: 77 WorkflowRunManager.connect() line: 135 WorkflowRunManagerPanel.reconnect() line: 960 WorkflowRunManagerPanel.resetProvenanceInfo(ProvenanceStore) line: 937 WorkflowRunManagerPanel.initializeTab() line: 231 TabPaneFactory.createTabPaneTabs(TableauFrame) line: 110 TabManager.initializeTabs(TableauFrame) line: 87 KeplerGraphFrame._initBasicGraphFrame() line: 377 KeplerGraphFrame(BasicGraphFrame).&lt;init&gt;(NamedObj, Tableau, LibraryAttribute) line: 224 KeplerGraphFrame(ExtendedGraphFrame).&lt;init&gt;(CompositeEntity, Tableau, LibraryAttribute) line: 95 KeplerGraphFrame(ActorGraphFrame).&lt;init&gt;(CompositeEntity, Tableau, LibraryAttribute) line: 135 KeplerGraphFrame.&lt;init&gt;(CompositeEntity, Tableau, LibraryAttribute) line: 180 KeplerGraphTableau.&lt;init&gt;(PtolemyEffigy, String, LibraryAttribute) line: 164 KeplerGraphTableau\$Factory.createTableau(Effigy) line: 227 PtolemyTableauFactory.createTableau(Effigy) line: 100 TableauFactory.createTableau(Effigy) line: 127 Configuration.createPrimaryTableau(Effigy) line: 569 TableauFrame\$1.actionPerformed(ActionEvent) line: 519</pre>			
<b>Related issues:</b>			
Blocked by Kepler - Bug #5095: test kepler and wrp for memory leaks		<b>In Progress</b>	<b>07/14/2010</b>

### History

#### #1 - 12/09/2010 06:38 PM - Derik Barseghian

The first execution in any new window makes a new db connection. This is because a new SQLRecordingV8 is created for each new window (with `_needReconnectDB` set to true).

ProvenanceRecorder.attributeChanged() calls ProvenanceRecorder.\_changeRecordingType() which constructs the new SQLRecordingV8 with:  
`newObj = rec.newInstance();`

Should these connections instead come from a shared pool?

In r26477 I made a change to WorkflowRunManagerPanel so it hopefully doesn't reconnect when unnecessary.

I need to look more for other unnecessary connections, and re: proper disconnection...

#### #2 - 12/10/2010 06:48 PM - Derik Barseghian

Jianwu tested this after my change, and he says he doesn't see the number of connections increasing for new windows or other events and that we can close this now.

#3 - 03/27/2013 02:29 PM - Redmine Admin

Original Bugzilla ID was 5254