

Metacat - Bug #2052

Metacat does not handle attribute XPATH queries correctly

03/23/2005 01:21 PM - Chris Jones

Status:	Resolved	Start date:	03/23/2005
Priority:	Immediate	Due date:	
Assignee:	Chris Jones	% Done:	0%
Category:	metacat	Estimated time:	0.00 hour
Target version:	1.5	Spent time:	0.00 hour
Bugzilla-Id:	2052		
Description			
<p>When metacat is queried and one of the query parameters is a an XML attribute expressed in XPATH, the resultant squery that is created doesn't create the correct XPATH for the attribute. The final '/' before the attribute is ommitted. This should be a simple fix in DBQuery.java.</p> <p>Also, when only an attribute is used as a query parameter, an exception is thrown in newPathExpressionWithoutAttribute in QuerySpecification.java.</p> <p>An example:</p> <p>http://metacat.nceas.ucsb.edu/knb/servlet/metacat?action=query&qformat=xml&/eml/@packageId=%25 (produces returned documents)</p> <p>http://metacat.nceas.ucsb.edu/knb/servlet/metacat?action=query&qformat=xml&@packageId=%25 (produces the exception and no documents)</p>			

History

#1 - 03/23/2005 01:32 PM - Chris Jones

Added the trailing '/' in DBQuery.java that was ommitted when XPATH queries included attributes

#2 - 04/04/2005 03:45 PM - Chris Jones

On closer inspection, there are two remaining issues here:

- 1) path queries with no element content (only attribute) throw an exception and,
- 2) path queries with element content like './' don't throw an exception, but end up creating a sub-select in the xml_nodes table that never returns any rows:

```
(SELECT nodeid FROM xml_index WHERE path LIKE '.')
```

The SQL code will need to be modified to handle the cases.

#3 - 04/06/2005 02:14 AM - Chris Jones

In QuerySpecification.java, when searching for attributes in the XPATH expression, an 'index out of bounds' exception was thrown when **only** an attribute was included in the path string.

This fix changes the pathexpr.indexOf comparison to 0 rather than 1, since the index starts at 0.

#4 - 04/06/2005 02:24 AM - Chris Jones

When a path expression includes element content and attribute content, then the SQL generated needs to search for attribute nodetypes with parent nodenames equal to the path expression element content. However, when **only** searching for attribute content (such as just packageId), then the parent sub-select needs to be omitted. This patch omits the parent sub-select when the pathexpr starts with ", './, or './'.

#5 - 04/07/2005 05:35 PM - Chris Jones

Changes to the Query subsystem fix bugs that prevented attributes from being expressed solely in the xpath query statement and the returnfield values. For instance, a query URL may now include search strings like '@packageld=sbclter%25' and return strings like 'returnfield=@packageld'. Previously, the attribute had to be appended to an element: '/eml/@packageld=sbclter%25'. These fixes change DBQuery.java, QuerySpecification.java, and QueryTerm.java.

#6 - 03/27/2013 02:19 PM - Redmine Admin

Original Bugzilla ID was 2052