

Metacat - Bug #1718

spatial search does not work

10/15/2004 12:59 PM - Matt Jones

Status:	Resolved	Start date:	10/15/2004
Priority:	Immediate	Due date:	
Assignee:	Saurabh Garg	% Done:	0%
Category:	metacat	Estimated time:	0.00 hour
Target version:	1.5	Spent time:	0.00 hour
Bugzilla-Id:	1718		
Description			
<p>Spatial search is not working in metacat. This is probably because of casting problems, where the nodedata column is being cast to a number to do the < comparison. Looking at the metadata, it appears that the LAT/LONG values are sometimes empty, and sometimes have leading spaces. These will not cast correctly to numeric values.</p> <p>The simplest fix is to simply eliminate all non-numeric values before doing the comparisons.</p> <p>A more complex (and possibly better) approach is to have separate nodevalue tables for each data type we need to treat differently (e.g., String, Numeric, Date).</p> <p>To see some of the offending values in the data, try a SQL command like this:</p> <pre>select nodeid, nodedata from xml_nodes where nodetype like 'TEXT' and nodedata like '% ' and parentnodeid in (select nodeid from xml_nodes where nodetype like 'ELEMENT' and nodename IN ('eastBoundingCoordinate', 'westBoundingCoordinate', 'northBoundingCoordinate', 'southBoundingCoordinate'))</pre> <p>We really need for query performance to be improved for these more complex searches, so we need to make some design decisions about the overall performance issues.</p>			
Related issues:			
Is duplicate of Metacat - Bug #1703: spatial search does not work		Resolved	09/28/2004

History

#1 - 12/17/2004 12:13 PM - Saurabh Garg

From bug 1703:

the spatial bounding box search dialog in morpho does not return any results even when it should.

Also: The labels on the lat/long text boxes do not match up with the labels on the xslt stylesheets for the web site. on the web site, the values are labeled with directions (e.g. 'west') but then use negative values. the labels in morpho just have a directional indicator but do not use negative values.

#2 - 12/17/2004 12:15 PM - Saurabh Garg

- Bug 1703 has been marked as a duplicate of this bug. ***

#3 - 01/07/2005 02:45 PM - Saurabh Garg

Fixed spatial search by adding nodedatanumerical column in the xml_nodes table.

#4 - 01/13/2005 05:27 PM - Saurabh Garg

Closing the bug. Working fine so far.

#5 - 01/13/2005 05:49 PM - Matt Jones

Sid, can you explain why you think this works now? There have been several demonstrations of it not working and/or being extremely slow. Maybe you didn't replicate the data conditions that caused the error?

#6 - 01/13/2005 07:01 PM - Saurabh Garg

Matt, I tried running it again and it runs fine for me.

Did you test against my metacat install? My machine is no longer running the latest code because I was step by step testing the code that I have changed and doing cvs checkins. So you can expect it to be slow.

If you didnt receive any results for a geographic query and you used Morpho to run a geographic query, you might want to check if the query had `<returndoctype>eml://ecoinformatics.org/eml-2.0.1</returndoctype>` in it. Almost all documents on my machine are eml-2.0.1

#7 - 03/27/2013 02:18 PM - Redmine Admin

Original Bugzilla ID was 1718