

Mulgara - Bug #104

Subtypes ignored in datatyped literal comparisons

04/30/2008 05:08 PM - Alex Hall -

Status:	Closed	Start date:	
Priority:	Normal	Due date:	
Assignee:	Paula Gearon	% Done:	0%
Category:	Mulgara	Estimated time:	0.00 hour
Target version:			
Resolution:	fixed		

Description

When a new stringpool node is allocated (in XAStringPoolImpl.Phase.findGNode), the AVL comparator does not use the subtype ID locating the SPObjct in the stringpool. If you attempt to insert a datatyped literal, and there is already a stringpool entry with an identical type ID and lexical form but different subtype ID, then the node for that existing entry is returned. For instance, if there is already an entry for "0"^^xsd:integer, you cannot insert "0"^^xsd:nonNegativeInteger -- it gets mapped to the existing "0"^^xsd:integer.

Fixing this issue would probably require modifying the comparator to use the subtype ID. This would have implications for any code that wants to take slices from the stringpool for typed literals, ignoring subtype (as I believe is the case in the XSD resolver). Also, changing the comparator would change the ordering in the stringpool, which would break backwards compatibility with previous database versions.

History

#1 - 10/15/2008 05:20 AM - Paula Gearon

- Status changed from New to Closed

- Resolution set to fixed

AVL comparators now consider subtype. SPARQL FILTER operations are now required for distinguishing different data types. See [r1182](#)