Saxon - Bug #4972

XQuery Update testing

2021-04-17 10:19 - Michael Kay

Status:	Resolved		**Start date:**	2021-04-17
Priority:	Low		**Due date:**	
Assignee:	Norm Tovey-Walsh		**% Done:**	0%
Category:	Build and release		**Estimated time:**	0:00 hour
Sprint/Milestone:			**Spent time:**	0:00 hour
Legacy ID:			**Fix Committed on Branch:**	
Applies to branch:			**Fixed in Maintenance Release:**	

Description

It appears that our routine automated testing does not exercise the XQuery Update test suite.

It's especially unclear what the status is of XQuery Update testing on .NET

History

#1 - 2021-04-17 10:37 - Michael Kay

Note also, as far as I can see the W3C test suite for XQuery Update has not been migrated to GitHub.

#2 - 2021-04-19 11:27 - Michael Kay

I'm tempted to tackle this by merging the XQuery Update tests into the main QT3/QT4 test suite.

The stylesheet convertFromXQTS.xsl that was originally used to create the QT3 tests from the old XQuery test suite still exists in the tools directory of qt3, and could be adapted to convert the XQUTS tests.

The only new requirement is to express assertions against the result document arising as a result of the update (rather than against the primary query result), and that's not really very different. Test drivers would only need a small amount of change to handle this.

#3 - 2021-04-19 18:36 - Michael Kay

I have made good progress in converting the update test suite to standard QT3 format. Main glitches are:

(a) most of the tests rely on XML tree comparison of the result, which is notoriously prone to whitespace problems

(b) there are 39 tests that do multiple phases (i.e. not just a single updating query and then an assertion against the result; multiple phases is going to require explicit support in the QT3 test catalog format and in test drivers.

#4 - 2021-05-12 18:19 - Michael Kay

- Status changed from New to Resolved

I completed the integration of XQuery Update tests into the QT4 test suite. The multi-phase tests are handled by allowing the <test-case> element to contain a sequence of test elements: the second and subsequent queries take the output of the previous query as input. Test drivers have been updated to handle this format.