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XQuery for Developers

Duration: 2 Days

Overview:

XQuery provides the means to extract and manipulate data from XML documents or any data source that can be viewed as XML, such as relational databases or office documents.

XQuery uses XPath expression syntax to address specific parts of an XML document. It supplements this with a SQL-like "FLWOR expression" for performing joins. A FLWOR expression is constructed from the five clauses after which it is named: FOR, LET, WHERE, ORDER BY, RETURN.

The language also provides syntax allowing new XML documents to be constructed. Where the element and attribute names are known in advance, an XML-like syntax can be used; in other cases, expressions referred to as dynamic node constructors are available. All these constructs are defined as expressions within the language, and can be arbitrarily nested.

The language is based on a tree-structured model of the information content of an XML document, containing seven kinds of node: document nodes, elements, attributes, text nodes, comments, processing instructions, and namespaces.

Interested? Then Aspect Training's XQuery for Developers training course is the course for you.

Prerequisites:

Attendance of Aspect Training's XML Introduction/Intermediate training course or equivalent knowledge.

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Course Topics:

XQuery Quick Introduction

What is XQuery For?
Playing with XQuery
Literals and Comments in XQuery
Your First XQuery
Accessing XML Documents with XQuery

XQuery FLWOR Expressions

An Introduction to the XQuery FLWOR Expression
Simple FLWOR Expressions
The Principal Parts of an XQuery FLWOR Expression
F is for FOR
L is for LET
Using 'Variables' in XQuery
W is for WHERE
O is for ORDER BY
R is for RETURN
Other parts of the XQuery FLWOR Expression
Declaring XQuery types
XQuery Position variables
Multiple assignments
What about Grouping in XQuery?
XQuery FLWOR: A Summary

Generating XML Output with XQuery

Show Me the Database!

Creating Nodes XQuery

Eliminating Duplicate Subtrees with distinct-values() and FLWOR Expressions
Inverting Hierarchies
Quantifiers
Conditional Expressions

XQuery Operators

Arithmetic Operators
Comparison Operators
Sequence Operators

XQuery Built-in Functions

Defining your own Functions in XQuery

A simple XQuery function
The Anatomy of an XQuery Function Declaration
The XQuery Function Name
XQuery Function Arguments
The result type
The XQuery Function Body
Documentation

Variable Definitions in XQuery

Library Modules in XQuery

Creating a Database Connection

Supported Databases
The Connection Settings Dialog Box
Using the Server URL Field
How to Create a Database Connection
How to Edit a Database Connection

Creating a collection() Statement

collection() Function Syntax
What Happens When You Create a collection() Statement?
Creating Multiple Connections
How to Create a collection() Statement