**New Perspectives XML Comprehensive, 3e**

**Tutorial 8: Building Applications with XSLT 2.0**

**Key Terms**

**Atomic value** A single data value that cannot be broken into smaller parts. (XML 467)

**Basic XSLT processor** A processor that supports the core functionality of XSLT. (XML 460)

**Catalog file** A file that contains a collection of the files to retrieve into the style sheet. (XML 462)

**Collection()** An XPath 2.0 function that retrieves data from multiple document sources. (XML 461)

**Comma-separated values** file A text file format in which data values are separated by commas on a single line. (XML 507)

**Constructor function** An XSLT 2.0 function that creates data values based on XML Schema data types. (XML 467)

**CSV file** *See* comma-separated values file. (XML 500)

**Current-date()** An XPath function that returns the current date as an xs:dateTime value. (XML 459)

**Current-group()** An XPath 2.0 function that returns the current group being referenced when grouping sequences or nodes. (XML 494)

**Current-grouping-key()** An XPath 2.0 function that returns the value of the key used with the current group being displayed. (XML 494)

**Data type** Description of the kind of data contained within an atomic value. (XML 467)

**Durations** Time differences specified using the xs:duration data type. (XML 458)

**Except operator** An XPath 2.0 operator that returns every item from one sequence that is not present in another sequence. (XML 480)

**Format-date()** An XPath function used to format values from the xs:date data type. (XML 458)

**Format-dateTime()** An XPath function used to format values from the xs:dateTime data type. (XML 458)

**Grouping by value** A grouping method in XSLT 2.0 in which all items from the population that share the same grouping key value are grouped together. (XML 492)

**Grouping in sequence** A grouping method in XSLT 2.0 that does not group items by their values but rather their position in the sequence. (XML 493)

**Hours-from-duration()** An XPath 2.0 function that returns the hours value from a duration. (XML 476)

**If () else()** An XPath 2.0 function used to return a conditional value. (XML 489)

**Index-of()** An XPath function that returns the location of an item in a sequence. (XML 458)

**Intersect operator** An XPath 2.0 operator that returns the intersection of two sequences. (XML 480)

**Lower-case()** An XPath 2.0 function used to replace characters in a text string with lowercase characters. (XML 502)

**Matches()** An XPath 2.0 function that tests whether a text string matches the pattern specified in a regular expression. (XML 503)

**Months-from-duration()** An XPath 2.0 function that returns the month value from a duration. (XML 476)

**Picture markers** Symbols used in XPath 2.0 data formats to specify how dates and times should be rendered. (XML 458)

**Population** The items in the sequence of items to be grouped. (XML 492)

**Regex-group()** An XPath 2.0 function that references each substring in a sequence constructed within the xsl:analyze-string element. (XML 506)

**Replace()** An XPath 2.0 function that replaces any substrings within a text string that match a regular expression pattern. (XML 503)

**Schema-aware XSLT processor** A processor that supports data types defined in user-created schemas, in addition to the core functionality of XSLT. (XML 460)

**Sequence** An ordered list of items that replaces the concept of node sets from XSLT 1.0. (XML 458)

**System-property()** An XSLT function that returns information about the XSLT processor. (XML 516)

**Tokenize()**An XPath 2.0 function that splits a text string into a sequence of substrings at every occurrence of a regular expression pattern. (XML 501)

**Translate()** An XPath 1.0 function used to replace one substring with another. (XML 502)

**Union | operator** An XPath 2.0 operator that returns the union of two sequences. (XML 480)

**Upper-case()** An XPath 2.0 function used to replace characters in a text string with uppercase characters. (XML 502)

**Xsl:analyze-string** An XSLT 2.0 element used to create structured content based on a regular expression. (XML 505)

**Xsl:for-each-group** An XSLT 2.0 element that groups the output by a specified set of values or sequences. (XML 492)

**Xsl:function** An XSLT 2.0 element 2.0 to create customized functions that can be referenced in XPath expressions. (XML 486)

**Xsl:result-document** An XSLT 2.0 element that writes style transformations to multiple result documents. (XML 506)

**Xsl:sequence** An XSLT 2.0 element used to construct a sequence and used to return values from an XSLT 2.0 function. (XML 486)