

XQUERY - FLWOR

http://www.tutorialspoint.com/xquery/xquery_flwor.htm

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FLWOR is an acronym that stands for "For, Let, Where, Order by, Return". The following list shows what they account for in a FLWOR expression –

- **F** - For - Selects a collection of all nodes.
- **L** - Let - Puts the result in an XQuery variable.
- **W** - Where - Selects the nodes specified by the condition.
- **O** - Order by - Orders the nodes specified as per criteria.
- **R** - Return - Returns the final result.

Example

Following is a sample XML document that contains information on a collection of books. We will use a FLWOR expression to retrieve the titles of those books with a price greater than 30.

books.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<books>

  <book category="JAVA">
    <title lang="en">Learn Java in 24 Hours</title>
    <author>Robert</author>
    <year>2005</year>
    <price>30.00</price>
  </book>

  <book category="DOTNET">
    <title lang="en">Learn .Net in 24 hours</title>
    <author>Peter</author>
    <year>2011</year>
    <price>70.50</price>
  </book>

  <book category="XML">
    <title lang="en">Learn XQuery in 24 hours</title>
    <author>Robert</author>
    <author>Peter</author>
    <year>2013</year>
    <price>50.00</price>
  </book>

  <book category="XML">
    <title lang="en">Learn XPath in 24 hours</title>
    <author>Jay Ban</author>
    <year>2010</year>
    <price>16.50</price>
  </book>

</books>
```

The following Xquery document contains the query expression to be executed on the above XML document.

books.xqy

```
let $books := (doc("books.xml")/books/book)
return <results>
```

```
{
  for $x in $books
  where $x/price>30
  order by $x/price
  return $x/title
}
</results>
```

Result

```
<title lang="en">Learn XQuery in 24 hours</title>
<title lang="en">Learn .Net in 24 hours</title>
```

Verify Result

To verify the result, replace the contents of *books.xqy* (given in the [Environment Setup](#) chapter) with the above XQuery expression and execute the XQueryTester java program.