

XQUERY - XPATH

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

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XQuery is XPath compliant. It uses XPath expressions to restrict the search results on XML collections. For more details on how to use XPath, see our [XPath Tutorial](#).

Recall the following XPath expression which we have used earlier to get the list of books.

```
doc("books.xml")/books/book
```

XPath Examples

We will use the books.xml file and apply XQuery to it.

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>40.50</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>
```

We have given here three versions of an XQuery statement that fulfil the same objective of displaying the book titles having a price value greater than 30.

XQuery - Version 1

```
(: read the entire xml document :)
let $books := doc("books.xml")

for $x in $books/books/book
where $x/price > 30
return $x/title
```

Output

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

XQuery - Version 2

```
(: read all books :)
let $books := doc("books.xml")/books/book

for $x in $books
where $x/price > 30
return $x/title
```

Output

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

XQuery - Version 3

```
(: read books with price > 30 :)
let $books := doc("books.xml")/books/book[price > 30]

for $x in $books
return $x/title
```

Output

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

Verify the 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.