Aman Batra

Implemented in R and FreeFormatter.com

```
Query 1
```

```
What is the title of the book written by "Galos, Mike"?
```

```
# QUERY 1 - What is the title of the book written by "Galos, Mike"?
bookname = xpathSApply(xmlDocument,'//book[author="Galos, Mike"]/title/text()', xmlValue)
bookname
## [1] "Visual Studio 7: A Comprehensive Guide"
```

XPath Query(relative): //book[author="Galos, Mike"]/title/text()

XPath Query(absolute): /catalog/book[author="Galos, Mike"]/title/text()

Output from https://www.freeformatter.com/xpath-tester.html#ad-output

XML Input Option 1: Copy-paste your XML document here <?xml version="1.0"?> <catalog> <book id="bk101"> <author>Gambardella, Matthew</author> <title>XML Developer's Guide</title> <genre>Computer</genre> Option 2: Or upload your XML document Choose file No file chosen UTF-8 XPath expression //book[author = "Galos, Mike"]/title/text() Include the XML item type in output: No

XPath result:

TEST XPATH

Visual Studio 7: A Comprehensive Guide

Screenshot from https://www.freeformatter.com/xpath-tester.html#ad-output

TEST XPATH IN NEW WINDOW

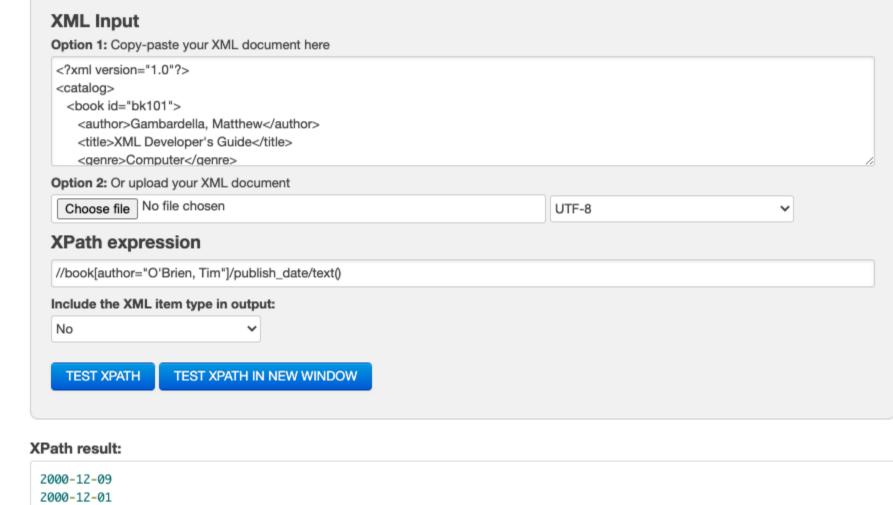
Query 2

What are the publication dates of all books written by "O'Brien, Tim"?.

#QUERY 2 - What are the publication dates of all books written by "O'Brien, Tim"?. dfdate = xpathSApply(xmlDocument,'//book[author="0\'Brien, Tim"]/publish_date/text()', xmlValue) dfdate ## [1] "2000-12-09" "2000-12-01"

XPath Query(relative)://book[author="O'Brien, Tim"]/publish_date/text() XPath Query(absolute): /catalog/book[author="O'Brien, Tim"]/publish_date/text()

Output from https://www.freeformatter.com/xpath-tester.html#ad-output



Screenshot from https://www.freeformatter.com/xpath-tester.html#ad-output

Query 3

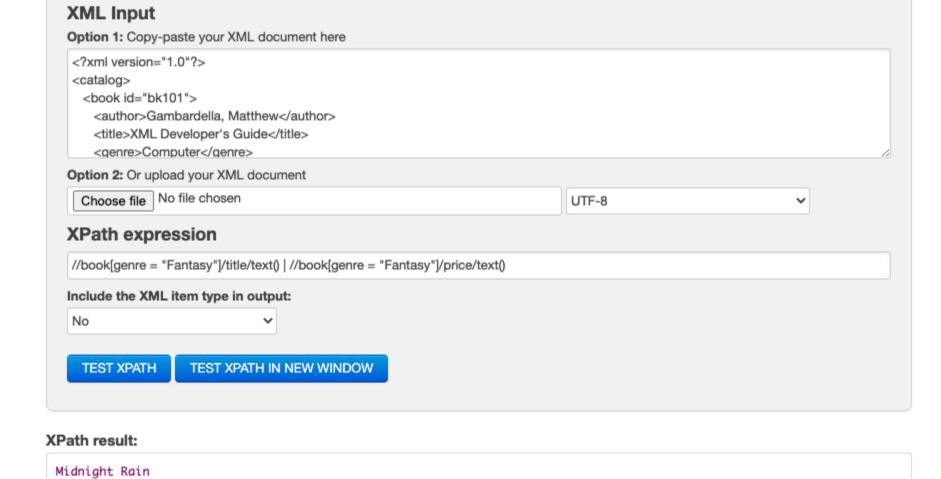
List the title and prices of all books in the "Fantasy" genre.

```
#QUERY 3 - List the title and prices of all books in the "Fantasy" genre.
titleprice = xpathSApply(xmlDocument, '//book[genre = "Fantasy"]/title/text() | //book[genre = "Fantasy"]/price/
text()', xmlValue)
titleprice
## [1] "Midnight Rain"
                            "5.95"
                                                 "Maeve Ascendant"
                            "Oberon's Legacy"
                                                 "5.95"
## [4] "5.95"
## [7] "The Sundered Grail" "5.95"
```

XPath Query(absolute) : /catalog/book[genre = "Fantasy"]/title/text() | /catalog/book[genre = "Fantasy"]/price/text()

XPath Query(relative): //book[genre = "Fantasy"]/title/text() | //book[genre = "Fantasy"]/price/text()

Output from https://www.freeformatter.com/xpath-tester.html#ad-output



5.95 Maeve Ascendant 5.95

Oberon's Legacy The Sundered Grail 5.95 Screenshot from https://www.freeformatter.com/xpath-tester.html#ad-output

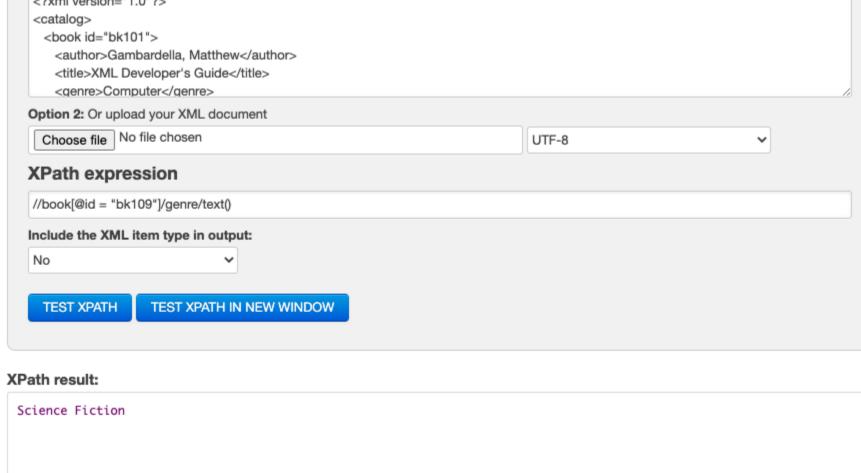
Query 4

In what genre is the book with id "bk109". #QUERY 4 - In what genre is the book with id "bk109".

bookgenre = xpathSApply(xmlDocument,'//book[@id = "bk109"]/genre/text()', xmlValue) bookgenre

```
## [1] "Science Fiction"
XPath Query(relative) : //book[@id = "bk109"]/genre/text()
XPath Query(absolute) : /catalog/book[@id = "bk109"]/genre/text()
Output from https://www.freeformatter.com/xpath-tester.html#ad-output
```

XML Input Option 1: Copy-paste your XML document here <?xml version="1.0"?>



Screenshot from https://www.freeformatter.com/xpath-tester.html#ad-output

Query 5

List the title and author of all books that cost less than \$5. #QUERY 5 - List the title and author of all books that cost less than \$5.

```
lessthanfive = xpathSApply(xmlDocument,'//book[price < 5]/title/text() | //book[price < 5]/author/text()', xmlV</pre>
 alue)
 lessthanfive
 ## [1] "Randall, Cynthia" "Lover Birds"
                                                    "Thurman, Paula"
                                                                          "Splish Splash"
 ## [5] "Knorr, Stefan" "Creepy Crawlies"
XPath Query(relative) : //book[price < 5]/title/text() | //book[price < 5]/author/text()
XPath Query(absolute) : /catalog/book[price < 5]/title/text() | //book[price < 5]/author/text()
```

XML Input

Option 1: Copy-paste your XML document here <?xml version="1.0"?>

Screenshot from https://www.freeformatter.com/xpath-tester.html#ad-output

Output from https://www.freeformatter.com/xpath-tester.html#ad-output

```
<catalog>
     <book id="bk101">
       <author>Gambardella, Matthew</author>
      <title>XML Developer's Guide</title>
      <genre>Computer</genre>
   Option 2: Or upload your XML document
    Choose file No file chosen
                                                                                UTF-8
   XPath expression
   //book[price < 5]/title/text() | //book[price < 5]/author/text()
   Include the XML item type in output:
   No
     TEST XPATH
                      TEST XPATH IN NEW WINDOW
XPath result:
```

Randall, Cynthia Lover Birds Thurman, Paula Splish Splash Knorr, Stefan Creepy Crawlies