

It is necessary for typing XQuery commands below:

for \$o in doc("query.xml")//james\_book/book

where \$o/time = "After July 2016" or \$o/time = "After reading JSON in 24 hours"

return

<list>

<name>{\$o/name/text()}</name>

<author>{\$o/author/text()}</author>

</list>

Here is the result:

The screenshot shows the BaseX 9.4.1 interface. The main window is titled "file [query] - BaseX 9.4.1". The menu bar includes "Database", "Editor", "View", "Visualization", "Options", and "Help". The toolbar contains various icons for file operations, editing, and visualization. The "Find" panel on the left shows the file "query.xml" selected. The "Editor" panel displays the following XQuery:

```
1 for $o in doc("query.xml")//james_book/book
2 where $o/time = "After July 2016" or $o/time = "After reading JSON in 24 hours"
3 return
4 <list>
5   <name>{$o/name/text()}</name>
6   <author>{$o/author/text()}</author>
7 </list>
```

The "Result" panel shows the output of the query, which is an XML document with the following structure:

```
<list>
  <name>JSON in 24 hours</name>
  <author>Peter Settler</author>
</list>
<list>
  <name>Miss Smilla's feeling for snow</name>
  <author>Peter Hoeg</author>
</list>
```

The "Info" panel on the right shows the "Compiling" process, including the following steps:

- rewrite fn.doc(uri) to document-node() item: doc("query.xml") -> document { "file:///C:/Program%20Files%20(x86)/BaseX/query.xml" }
- merge: descendant::\*james\_book
- convert to child steps: descendant::\*james\_book
- rewrite expression list to xs:string sequence: ("After July 2016", "After reading JSON in 24 hours")
- simplify or: (\$o\_0/\*time = "After July 2016" or \$o\_0/\*time = "After reading JSON in 24 hours")
- rewrite fn.boolean(items) to hashed = comparison: boolean(\$o\_0/\*time = ("After July 2016", "After reading JSON in 24 hours"))
- apply text index for ("After July 2016", "After reading JSON in 24 hours")
- rewrite to predicate: \*time = ("After July 2016", "After reading JSON in 24 hours")
- inline for \$o\_0 in db.text("query", ("After July 2016", "After reading JSON in 24 hours"))parent:..

The status bar at the bottom indicates "0 string(s) found." and "Total Time: 16.52 ms".