

COMP 790 Security and Multiagent Systems Spring 2004 Assignment 3

Download the accompanying document `hw3.xml` and formulate XPath location path expressions that identify the indicated node sets in the document tree of this document. You may assume familiarity with the structure of the document when formulating the location paths. Some of the problems call for two location paths, one with the full syntax, and one with the abbreviated syntax. Others call for only one location, either in the full or in the abbreviated syntax. Put each of your answers on a separate `.txt` file and test it using `xmlgrep`. Turn in all your files with location paths. If you have to email your answers to me (which you shouldn't do), zip them into one file.

1. The `permanent` attributes of department heads. (Full and abbreviated)
2. Comments immediately following `size` elements. (Full and abbreviated)
3. Processing instructions that are children of `head` elements. (Full only)
4. The city and state (string-values, separated by a comma and space) of the third location of the Software department. (Use `concat`.) (Abbreviated only)
5. Permanent locations with action codes greater than 5. (Note that `xmlgrep` doesn't support `and`.) (Full and abbreviated)
6. The names of departments with more than 3 locations. (Full and abbreviated)
7. Any department whose target size is no greater than the sum of the sizes of its locations. (Abbreviated only)
8. Any department head with initials "J. D.". (Abbreviated only)
9. Any locations of departments with permanent heads with sizes having confidence levels greater than five. (Abbreviated only)