TEI XPath Exercises

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Do as many of the exercises below as you can in the allowed time. Provide the answers to record your progress if you wish.

1. List `<person>` elements of all women. You'll need to add put a test on `tei:person` of `@sex='2'`

   ANSWER: The number of hits is _____

2. List the `<person>` elements of all British women. (Extend the sex test to say and `tei:nationality/@target='#GB'`)

   ANSWER: The number of hits is _____

3. List only the `<persName>` elements of all British women.

   ANSWER: The third woman's forename is _____

4. List the `<person>` elements of all British women whose final age was less than or equal to 25

   ANSWER: The number of hits is _____

5. List the `<persName>` elements of all British women whose final age was less than or equal to 25

   ANSWER: The first woman's forename is _____

6. List the birthplace (`<settlement>`) of elements of all British women

   ANSWER: The eighth woman's birthplace is _____

7. Use the XPath function `count()` to output the number of record of British women have birthplace (`<settlement>`) of elements.

   ANSWER: The count is _____

8. Can you count how many of these were born in London? Note that the element to test is `<settlement>`, which is not a direct child of `<birth>`, so you may like to use an XPath expression like `tei:birth//tei:settlement`.

   ANSWER: The count is _____

9. Find all `<body>` elements which contain the word 'LOVE' using the XPath function `contains(., 'LOVE')`.

   ANSWER: The number of hits is _____

10. Do the same, except search for 'love' (lowercase).

    ANSWER: The number of hits is _____

11. Now do the same but using the eXist extension for case-insensitive searching such as: `[.  &='love']` and although this is case-insensitive, why did it not retrieve as many as `contains(., 'LOVE')`?

    ANSWER: The number of hits is _____

12. Similarly, find all `<body>` elements which contain any word which has 'love' in any part. (Hint: use * as a wildcard)

    ANSWER: The number of hits is _____

13. Use the eXist extension to find all the `<body>` elements which have both the words love and death.

    ANSWER: The number of hits is _____

14. Use a different eXist extension `|=` to find all the `<body>` elements which have *either* the word love *or* death.

    ANSWER: The number of hits is _____

15. Similarly, find all `<body>` elements which contain any of 'love', 'loved', 'loves' without using a wildcard.

    ANSWER: The number of hits is _____

16. Find all `<body>` elements where the word 'loving' is near the word 'memory'. (Hint: use the `near()` function.)

    ANSWER: The number of hits is _____

17. Find all the gravestone records (`<TEI>` elements) which mention 'Oxford'.

    ANSWER: The number of hits is _____

18. Find all the gravestone records which mention 'Oxford' where the person died in the 1960s.

    ANSWER: The number of hits is _____

If you don't finish all the exercises you can try them later at your leisure.