**Descripción de la actividad**

## 

From the ***7.1.-Songs.xml*** file (check the oodle task), define the **xPath expressions required** in the different questions listed below. **Save** all expressions in a **text document**, or **upload it directly** to your webpage.

### Expression no. 1. The root element

Define an xPath to obtain as result the root element of this document.

| Resultat: / |
| --- |

### Expression no. 2. All the songs

Set an xPath to obtain all the songs in this document.

| Resultat: //song |
| --- |

### Expression no. 3. First song

Define an xPath to obtain only the first song in this document.

| Resultat: //song[1] |
| --- |

### Expression no. 4. Second song

Define an xPath to obtain only the second song in this document.

| Resultat: //song[2] |
| --- |

### Expression no. 5. Last song

Define an xPath to obtain only the last song in this document.

*Hint: It’s “King for a Day (ft. Kellin Quinn)”*

| Resultat: count(//song) -> //song[1318] or //song[last()] |
| --- |

### Expression no. 6. Penultimate (next to last) song

Define an xPath to obtain only the next to last (penultimate) song in this document.

*Hint: It’s “Cowboys from Hell (Live from Monsters in Moscow Festival)”*

| Resultat: //song[1317] -- //song[last()-1] |
| --- |

### Expression no. 7. The first five songs

Defines an expression that allows you to select the first five songs in the document.

*Hint: Last song of this group is “Cherry Bomb”.*

| Resultat: //song[position()<=5] |
| --- |

### Expression no. 8. How many songs

Defines an expression that lets you know the number of songs in the document.

*Hint: We have 1318 songs*

| Resultat: count(//song) |
| --- |

### Expression no. 9. Single songs

*Defines an expression that lets you know how many singles songs there are in the document.*

*Hint: We have 369 singles*

| Resultat: count(//song[@single = "yes"]) |
| --- |

### Expression no. 10. Songs for all audiences

Define an expression that lets you know how many songs are for all audiences

*Hint: tp means per a tots els públics.*

| Resultat: count(//song[@tp = "yes"]) |
| --- |

### Expression no. 11. Single songs and for all audiences

Define an expression that lets you know how many singles are for all audiences.

*Hint: We have 187 singles for all audiences.*

| Resultat: count(//song[@tp = "yes" and @single = "yes"]) |
| --- |

### Expression no. 12. Non-single songs

*Design an expression that lets you know how many songs are not single.*

*Hint: We have 949 non single songs.*

| Resultat: count(//song[not(@single = "yes")]) |
| --- |

### Expression no. 13. Songs neither single nor for all audiences (both conditions)

Design an expression that to know how many songs are not *single songs* or for *all audiences*.

*Hint: We have 527. Fixa’t que una cançó que no sigui single no necessàriament ha d'aparéixer el seu atribut.* ***NO me estan dando igual. 529***

| Resultat: count(//song[not(@single) and (@tp="no")]) |
| --- |

### Expression no. 14. Non-single songs or not for all audiences

In this case, the expression will accept songs that are either not singles or not for all audiences.

*Hint: We have 1127.* ***No: 1131***

| Resultat: count(//song[not(@single='yes')] | (//song[@tp='no'])) |
| --- |

### Expression no. 15. Attributes of the first song

Defines an expression that allows you to select all the attributes of the first song in the document.

| Resultat: //song[1]/@\* |
| --- |

### Expression no. 16. Year of the first song

Defines an expression that allows you to select the year of the first song in the document.

*Hint: The year of the song is 1969. The songs show two years, one in the form of an attribute representing the year of the song, and the other as part of the release date. In this case we are interested in the first.*

| Resultat: //song[1]/@year |
| --- |

### Expression no. 17. Title (text) of the first song

Define an expression that allows you to know the title of the first song.  
*Hint: we just want the text.*

| Resultat: //song[1]/title/text() |
| --- |

### Expression no. 18. Title and artist of the first song

Define an expression that composes a text with the title of the first song, followed by the name of its artist in parentheses.

*Hint: The expected exit is “Fortunate Son (Creedence Clearwater Revival)”. Note the space between the title and the open parenthesis. Check string-join() and concat().*

| Resultat: concat(//song[1]/title/text(),' (', //song[1]/artist//text(), ')') |
| --- |

### Expression no. 19. Songs released on the 20th (day)

Define an expression that allows you to know the number of songs that were released on the 20th (day).

*Hint: We have 55.*

| Resultat: count(//song/date[day=20]) |
| --- |

### Expression no. 20. Songs by the group Metallica

Defines an expression that allows you to select the songs of the group Metallica.

| Resultat: //song[artist="Metallica"] |
| --- |

### Expression no. 21. Dates of the songs of the group Metallica

*Defines an expression that allows you to select the dates of the songs of the group Metallica.*

*Hint: the expected output is made up of the elements:*

<data>

<dia>20</dia>

<mes>Nov</mes>

<c>2007</c>

</data>

<data>

<dia>20</dia>

<mes>Nov</mes>

<c>2007</c>

</data>

<data>

<dia>20</dia>

<mes>Nov</mes>

<c>2007</c>

</data>

| Resultat: //song[artist="Metallica"]/date |
| --- |

### Expression no. 22. Songs whose year corresponds to the year of publication

Defines an expression that allows you to select all the songs for which their year corresponds to the year of their release.

*Hint: We have 141.*

| Resultat: //song[@year=date/year] |
| --- |

### Expression no. 23. Title of the songs with \*Harmonies” of extra

Defines an expression that allows you to select the title (text only) of all songs that have Harmonies as an extra.

*Hint: The expected output has the following content:*

My Own Eyes

Divide

September

Rebellion (ft. Daron Malakian)

King for a Day (ft. Kellin Quinn)

| Resultat: //song[extres="Harmonies"]/title/text() |
| --- |

### xpression no. 24. Songs with little stock

Define an expression that allows you to count how many songs have less than 10 units in stock?

*Hint: We have 43.*

| Resultat: //song[stock < 10] |
| --- |

### Expression no. 25. Title of songs that have run out of stock

Defines an expression that selects the title of songs with stock 0

*Hint: We have 2.*

| Resultat: //song[stock = 0]/title/text() |
| --- |

### Expression no. 26. Units in stock of "The Cars"

Expression to calculate the number of units in stock of the group "The Cars"

*Hint: We have 1021 units.*

| Resultat: sum(//song[artist = "The Cars"]/stock) |
| --- |

### Expression no. 27. Units in stock except for one song

Expression that calculates the number of units in stock of the group "The Cars" except for the song "Bye Bye Love".

*Hint: We have 896 units.*

| Resultat: sum(//song[artist = "The Cars" and not(title="Bye Bye Love")]/stock) |
| --- |

### Expression no. 28. A very specific song

Expression that finds the title of the singles for all the public, of sort Rock, that have like extras Core, with a stock below 50 or superior to 225 units, and that its artist contains the word “Day” in his first name.

*Hint: In this document there is only one song that meets all these conditions and its title is “Animal I Have Become”.*

| Resultat: //song[not(@single) and @tp="yes" and genre="Rock" and extres="Core" and stock>50 and stock > 225 and contains(./artist, 'Day') and not(ends-with(./artist, 'Day'))] |
| --- |