**Descripció de l’activitat**

Al present document pots trobar un seguit de tasques a resoldre individualment. Procura ser tu qui les faça completament, amb la menor ajuda possible de companys, però consultant totes les fonts necessàries a internet o altres mitjans, i raonant com es resolen.

## *Task to do:*

## 

From the ***7.2.-University.xml*** file (check the moodle 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. University name**

1. Define a path to obtain the element that contains the name of the university.

| Resultat: //centre |
| --- |

**Expression no. 2. University city**

2. Define a path to obtain only the text that contains the name of the city ​​of the university.

*Hint: text() function*

| Resultat: //ciutat/text() |
| --- |

**Expression no. 3.Name degrees**

3. Define a path to obtain only the text that contains the name of the degrees.

*Hint: There are 6*

| Resultat: //carrera/nom/text() |
| --- |

**Expression no. 4. Year study plan**

4. Define a path to obtain the element that contains the year of the curriculum of the degrees.

*Hint: There are 6*

| Resultat: //carrera/plan |
| --- |

**Expression no. 5. Student name**

Define a path to obtain the element that contains the student's name.

*Hint: There are 4*

| Resultat: //alumne/nom |
| --- |

**Expression no. 6. Id of the degrees**

Define a path to obtain the id attribute of the degrees.

*Hint: There are 6*

| Resultat: //carrera/@id |
| --- |

**Expression no. 7. Id 'c01' degree**

Define a path that displays the degree element with the id attribute value is ‘c01’.

*Hint: use predicate conditions []*

| Resultat: //carrera[@id='c01'] |
| --- |

**Expression no. 8. Center of the 'c02' degree**

Define a path to show the element center where the degree with attribute id=’c02’ it’s in.

*Hint: use relatives paths in the []*

| Resultat: //carrera/centre[../@id='c02'] |
| --- |

**Expression no. 9. Degree without Deputy Director (sotsdirector)**

Define a path to display the degree name element in which there is NO deputy director (sotsdirector).

*Hint: use the not() function*

| Resultat: //carrera/nom[../not(subdirector)] |
| --- |

**Expression no. 10 Degree with Deputy Director**

Define a path to display the degree name element in which there is a deputy director.

| Resultat: //carrera/nom[../subdirector] |
| --- |

**Expression no. 11. Student doing project**

Define a path to show the element name of the student who is doing the project.

| Resultat: //alumne/nom[../estudis/projecte] |
| --- |

*Hint: There are 2*

**Expression no. 12. Degree code with enrolled students**

Define a path to display the code attribute of the degrees with any student enrolled.

*Hint: There are 4*

| Resultat: //carreres/carrera[@id=../../alumnes/alumne/estudis/carrera/@codi] |
| --- |

**Expression no. 13. Name and surnames of scholarship students**

Define a path to show first and last names of scholarship students.

*Hint: you can use concat()*

| Resultat: //alumne/[concat(cognom1/text(),' ',cognom2/text())] |
| --- |

**Expression no. 14. Name of degree subjects 'c04'**

Define a path to show the name of the subjects of the degree C04

*Hint: They are 2. Pedagogy and Food Technology*

| Resultat: //assignatura[@titulacio='c04'] |
| --- |

**Expression no. 15. Second trimester subjects**

Define a path to show the name of the second trimester subjects.

*Hint: There are 5*

| Resultat: //assignatura[trimestre/text()='2']/nom/text() |
| --- |

**Expression no. 16. Subjects that do not have 4 credits**

Define a path to show the name of subjects that don’t have 4 theoric credits

*Hint: There are 5*

| Resultat: //assignatura[credits\_teorics/text()!= '4']/nom/text() |
| --- |

**Expression no. 17. Last student degree code**

Define a path to display the degree code attribute of the last student studying.

*Hint: you can use last ()*

| Resultat: //alumne[last()]/estudis/carrera/@codi |
| --- |

**Expression no. 18. Code subjects that women study**

Define a path to show the code attribute of the subjects that women are studying.

*Hint: There are 5 codes*

| Resultat: //alumne[genere='Dona']/estudis/assinatures/assignatura/@codi |
| --- |

**Expression no. 19. Student names in 'A02'**

Define a path to show the item name of students who are enrolled in the subject A02.

*Hint: As in the previous two, the predicate [] can go in the middle of the Xpath*

| Resultat: //alumne[estudis/assinatures/assignatura/@codi='a02']/nom |
| --- |

**Expression no. 20. Surnames of men**

Define a path to show the two surnames elements of all XML men.

*Hint: You can use the | character*

| Resultat: //alumne[genere='Home']/cognom1/text() | //alumne[genere='Home']/cognom2/text() |
| --- |

**Expression no. 21. Degree name of Víctor Manuel**

Define a path to show the element name of the Víctor Manuel degree.

*Hint: You can first locate the degree code of the student literally called 'Víctor Manuel', and then compare it with the degree code that is the son of degrees (in plural).*

| Resultat: //carreres/carrera[@id=../..//alumne[nom="Víctor Manuel"]/estudis/carrera/@codi]/string(nom) |
| --- |

**Expression no. 22. Luisa subjects name**

Define a path to show the name element of the subjects that Luisa is studying.

*Hint: Similar to the above. In this case the result is “Office” and “Software Engineering”x.*

| Resultat: //assinatures/assignatura[@id=../../alumnes/alumne[nom='Luisa']//@codi]/nom |
| --- |

**Expression no. 23. First surname of students in ‘Enginyeria del Software’**

Define a path to show the first surname element of students enrolled in the subject 'Software Engineering'

*Hint: The result are 3 surnames*

| Resultat:  //alumne[estudis//assignatura/@codi=../../assinatures/assignatura[nom='Enginyeria del Software']/@id]/cognom1 |
| --- |

**Expression no. 24. Degrees name**

Define a path to show the item degree name of the students that are enrolled in the subject 'Food Technology'.

| Resultat: //carrera[@id=//alumne[.//assignatura[@codi=//assignatura[nom='Tecnologia dels Alimentes']/@id]]//carrera/@codi]/nom |
| --- |

**Expression no. 25. Students name studying plans before to 2012**

Define a path to show the item (students) name studying degrees plans before 2012

*Hint: There are 2 students, Luisa and Fernando*

| //alumne[//carrera/@codi=../../carreres/carrera[plan/text()>=2012]/@id]/nom |
| --- |