

Ficha Prática 4

a)

cd\_catalog.xml [C:\Users\hugo\Desktop\Faculdade\ESTG Felgueiras\1º Semestre do 2º Ano\PE\Exercícios PE\Ficha prática 4\Parte 1\cd\_catalog.xml] - <oxygen/> XML Editor (Academic use only)

File Edit Find Project Options Tools Document Window Help

XPath 2.0 / CATALOG

cd\_catalog.xml X

```
1 <?xml version="1.0" encoding="UTF-8" ?>
2 <CATALOG>
3   <CD>
4     <TITLE>Empire Burlesque</TITLE>
5     <ARTIST>Bob Dylan</ARTIST>
6     <COUNTRY>USA</COUNTRY>
7     <COMPANY>Columbia</COMPANY>
8     <PRICE>10.90</PRICE>
9     <YEAR>1985</YEAR>
10  </CD>
11  <CD>
12    <TITLE>Hide your heart</TITLE>
13    <ARTIST>Bonnie Tylor</ARTIST>
14    <COUNTRY>UK</COUNTRY>
```

XPath/XQuery Builder

XPath 2.0

Scope: Current File

cd\_catalog.xml

1 /CATALOG/CD[COUNTRY = "USA"]

Results

Description - 7 items	XPath location	Resource	System ID	Location
	/CATALOG[1]/CD[1]	cd_catalog.xml	C:\Users\hugo\Desktop\Faculdade\Faculdade ESTG Felgueiras\1... 3:3	
	/CATALOG[1]/CD[3]	cd_catalog.xml	C:\Users\hugo\Desktop\Faculdade\Faculdade ESTG Felgueiras\1... 19:3	
	/CATALOG[1]/CD[10]	cd_catalog.xml	C:\Users\hugo\Desktop\Faculdade\Faculdade ESTG Felgueiras\1... 75:3	
	/CATALOG[1]/CD[12]	cd_catalog.xml	C:\Users\hugo\Desktop\Faculdade\Faculdade ESTG Felgueiras\1... 91:3	

XPath - cd\_catalog.xml X

Search Next Previous All Incremental Case sensitive Close

C:\...PE\Exercícios PE\Ficha prática 4\Parte 1\cd\_catalog.xml XPath - successful ( 0.0s ) U+000A 7 : 32

b)

cd\_catalog.xml [C:\Users\hugo\Desktop\Faculdade\Faculdade ESTG Felgueiras\1º Semestre do 2º Ano\PE\Exercícios PE\Ficha prática 4\Parte 1\cd\_catalog.xml] - <oxygen/> XML Editor (Academic use only)

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XPath 2.0 / CATALOG

cd\_catalog.xml X

```
11 <CD>
12   <TITLE>Hide your heart</TITLE>
13   <ARTIST>Bonnie Tylor</ARTIST>
14   <COUNTRY>UK</COUNTRY>
15   <COMPANY>CBS Records</COMPANY>
16   <PRICE>9.90</PRICE>
17   <YEAR>1988</YEAR>
18 </CD>
19 <CD>
20   <TITLE>Greatest Hits</TITLE>
21   <ARTIST>Dolly Parton</ARTIST>
22   <COUNTRY>USA</COUNTRY>
23   <COMPANY>RCA</COMPANY>
24   <PRICE>9.90</PRICE>
```

XPath/XQuery Builder

XPath 2.0

Scope: Current File

cd\_catalog.xml

1 /CATALOG/CD[PRICE < 10]

Results

Description - 20 items	XPath location	Resource	System ID	Location
	/CATALOG[1]/CD[2]	cd_catalog.xml	C:\Users\hugo\Desktop\Faculdade\Faculdade ESTG Felgueiras\1... 11:3	
	/CATALOG[1]/CD[3]	cd_catalog.xml	C:\Users\hugo\Desktop\Faculdade\Faculdade ESTG Felgueiras\1... 19:3	
	/CATALOG[1]/CD[5]	cd_catalog.xml	C:\Users\hugo\Desktop\Faculdade\Faculdade ESTG Felgueiras\1... 35:3	
	/CATALOG[1]/CD[7]	cd_catalog.xml	C:\Users\hugo\Desktop\Faculdade\Faculdade ESTG Felgueiras\1... 51:3	

XPath - cd\_catalog.xml X

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C:\...PE\Exercícios PE\Ficha prática 4\Parte 1\cd\_catalog.xml XPath - successful ( 0.0s ) U+000A 7 : 32

c)

cd\_catalog.xml [C:\Users\hugo\Desktop\Faculdade\ESTG Felgueiras\1º Semestre do 2º Ano\PE\Exercícios PE\Ficha prática 4\Parte 1\cd\_catalog.xml] - <oxygen/> XML Editor (Academic use only)

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XPath 2.0 /CATALOG

XPath/XQuery Builder

Scope: Current File cd\_catalog.xml

1 /CATALOG/CD[YEAR >= 1980 and YEAR < 1990]

Results

Description - 15 Items	XPath location	Resource	System ID	Location
	/CATALOG[1]/CD[1]	cd_catalog.xml	C:\Users\hugo\Desktop\Faculdade\Faculdade ESTG Felgueiras\1... 3:3	
	/CATALOG[1]/CD[2]	cd_catalog.xml	C:\Users\hugo\Desktop\Faculdade\Faculdade ESTG Felgueiras\1... 11:3	
	/CATALOG[1]/CD[3]	cd_catalog.xml	C:\Users\hugo\Desktop\Faculdade\Faculdade ESTG Felgueiras\1... 19:3	
	/CATALOG[1]/CD[4]	cd_catalog.xml	C:\Users\hugo\Desktop\Faculdade\Faculdade ESTG Felgueiras\1... 27:3	

XPath - cd\_catalog.xml

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C:\Users\hugo\Desktop\Faculdade\Faculdade ESTG Felgueiras\1º Semestre do 2º Ano\PE\Exercícios PE\Ficha prática 4\Parte 1\cd\_catalog.xml XPath - successful ( 0.0s ) U+000A 7 : 32

d)

cd\_catalog.xml [C:\Users\hugo\Desktop\Faculdade\Faculdade ESTG Felgueiras\1º Semestre do 2º Ano\PE\Exercícios PE\Ficha prática 4\Parte 1\cd\_catalog.xml] - <oxygen/> XML Editor (Academic use only)

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XPath 2.0 /CATALOG

XPath/XQuery Builder

Scope: Current File cd\_catalog.xml

1 /CATALOG/CD/TITLE

Results

Description - 26 Items	XPath location	Resource	System ID	Location
Empire Burlesque	/CATALOG[1]/CD[1]/TITLE[1]	cd_catalog.xml	C:\Users\hugo\Desktop\Faculdade\Faculdade ESTG Felgueiras\1... 4:5	
Hide your heart	/CATALOG[1]/CD[2]/TITLE[1]	cd_catalog.xml	C:\Users\hugo\Desktop\Faculdade\Faculdade ESTG Felgueiras\1... 12:5	
Greatest Hits	/CATALOG[1]/CD[3]/TITLE[1]	cd_catalog.xml	C:\Users\hugo\Desktop\Faculdade\Faculdade ESTG Felgueiras\1... 20:5	
Still got the blues	/CATALOG[1]/CD[4]/TITLE[1]	cd_catalog.xml	C:\Users\hugo\Desktop\Faculdade\Faculdade ESTG Felgueiras\1... 28:5	

XPath - cd\_catalog.xml

Search Next Previous All Incremental Case sensitive Close

C:\Users\hugo\Desktop\Faculdade\Faculdade ESTG Felgueiras\1º Semestre do 2º Ano\PE\Exercícios PE\Ficha prática 4\Parte 1\cd\_catalog.xml XPath - successful ( 0.0s ) U+000A 7 : 32

e)

The screenshot shows the XML Editor with the file `cd_catalog.xml` open. The XML content is as follows:

```

1 <?xml version="1.0" encoding="UTF-8" ?>
2 <CATALOG>
3   <CD>
4     <TITLE>Empire Burlesque</TITLE>
5     <ARTIST>Bob Dylan</ARTIST>
6     <COUNTRY>USA</COUNTRY>
7     <COMPANY>Columbia</COMPANY>
8     <PRICE>10.90</PRICE>
9     <YEAR>1985</YEAR>
10  </CD>
11  <CD>
12    <TITLE>Hide your heart</TITLE>
13    <ARTIST>Bonnie Tylor</ARTIST>
14    <COUNTRY>UK</COUNTRY>

```

The XPath/XQuery Builder shows the query: `1 /CATALOG/CD[ARTIST[starts-with('B')]]`. The Results pane shows 26 items found:

Description - 26 Items	XPath location	Resource	System ID	Location
	/CATALOG[1]/CD[1]	cd_catalog.xml	C:\Users\hugo\Desktop\Faculdade\Faculdade ESTG Felgueiras\1... 3:3	
	/CATALOG[1]/CD[2]	cd_catalog.xml	C:\Users\hugo\Desktop\Faculdade\Faculdade ESTG Felgueiras\1... 11:3	
	/CATALOG[1]/CD[3]	cd_catalog.xml	C:\Users\hugo\Desktop\Faculdade\Faculdade ESTG Felgueiras\1... 19:3	
	/CATALOG[1]/CD[4]	cd_catalog.xml	C:\Users\hugo\Desktop\Faculdade\Faculdade ESTG Felgueiras\1... 27:3	

f)

The screenshot shows the XML Editor with the same file `cd_catalog.xml`. The XPath/XQuery Builder shows the query: `1 count(/CD)`. The Results pane shows 1 item found:

Description - 1 Item	XPath location	Resource	System ID	Location
26	XPath location - Not available	cd_catalog.xml	C:\Users\hugo\Desktop\Faculdade\Faculdade ESTG Felgueiras\1...	

g)

cd\_catalog.xml [C:\Users\hugo\Desktop\Faculdade\Faculdade ESTG Felgueiras\1º Semestre do 2º Ano\PE\Exercícios PE\Ficha prática 4\Parte 1\cd\_catalog.xml] - <oxygen> XML Editor (Academic use only)

File Edit Find Project Options Tools Document Window Help

XPath 2.0 /CATALOG

cd\_catalog.xml X

CATALOG CD TITLE

22 <COUNTRY>USA</COUNTRY>

23 <COMPANY>RCA</COMPANY>

24 <PRICE>9.90</PRICE>

25 <YEAR>1982</YEAR>

26 </CD>

27 <CD>

28 <TITLE>Still got the blues</TITLE>

29 <ARTIST>Gary More</ARTIST>

30 <COUNTRY>UK</COUNTRY>

31 <COMPANY>Virgin records</COMPANY>

32 <PRICE>10.20</PRICE>

33 <YEAR>1990</YEAR>

34 </CD>

35 <CD>

Text Grid Author

XPath/XQuery Builder

XPath 2.0

Scope: Current File

cd\_catalog.xml

1 //CD[YEAR >= 1990 and YEAR <= 1999]/TITLE | //CD[YEAR >= 1990 and YEAR <= 1999]/PRICE

Results

Description - 24 Items	XPath location	Resource	System ID	Location
10.20	/CATALOG[1]/CD[4]/PRICE[1]	cd_catalog.xml	C:\Users\hugo\Desktop\Faculdade\Faculdade ESTG Felgueiras\1...	32:5
Eros	/CATALOG[1]/CD[5]/TITLE[1]	cd_catalog.xml	C:\Users\hugo\Desktop\Faculdade\Faculdade ESTG Felgueiras\1...	36:5
9.90	/CATALOG[1]/CD[5]/PRICE[1]	cd_catalog.xml	C:\Users\hugo\Desktop\Faculdade\Faculdade ESTG Felgueiras\1...	40:5
One night only	/CATALOG[1]/CD[6]/TITLE[1]	cd_catalog.xml	C:\Users\hugo\Desktop\Faculdade\Faculdade ESTG Felgueiras\1...	44:5

XPath - cd\_catalog.xml X

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