UNIT 3. REVIEW EXERCISES

1. Build a well-formed XML document with the following information (translated into English):

ARTÍCULO	DETALLE	PRECIO (sin IVA)	ORDEN	REFERENCIA
Calcetines	LEOTARDOS	1	C	C10
Calcetines	CALCETINES ALGODON	2	C	C37
Calcetines	PACK CALCETINES	1	C	C25
Calcetines	CALCETINES DEPORTE CORTO	1	C	C27
Calcetines	CALCETINES DEPORTE LARGO	8	C	C29
Calcetines	PACK MEDIAS	4	C	C45
Calcetines	CALCETINES HILO	15	C	C06
Calcetines	CALCETINES NYLON	2	C	C22
Jersey	JERSEY MULTICOLOR	10	J	J66
Jersey	JERSEY LANA	15	J	J14
Jersey	JERSEY HILO	10	J	J15
Jersey	JERSEY ALGODON	5	J	J33
Camiseta	PACK CAMISETAS ALGODON	2	R	M38
Camiseta	PACK CAMISETAS NYLON	1	R	M43
Camiseta	CAMISETA NYLON	2	R	M36
Camiseta	CAMISETA ALGODON	5	R	M18
Complementos	BUFANDA LANA	20	M	S08
Complementos	GORRO NYLON	4	M	S35
Complementos	CINTA NYLON	2	C	S09
Complementos	GUANTES SEDA LUJO	3	M	S80
Complementos	PACK BUFANDA	1	M	S17
Complementos	GORRO LANA	1	M	S11
Complementos	GORRO HILO	3	M	S12
Complementos	OREJERAS	3	M	S13

2. Create an Schema for validating the XML document of exercise 1, with the following restrictions:

- One article belongs to one of the following categories (Shocks, Jersey, T-shirt or Complements)
- Article's detail field cannot be greater than 100 chars
- Order field value has to be an uppercase letter
- Reference field value has to be an uppercase letter followed by two digits. The letter can be: S,C,J,M

3. Use XSLT to transform the XML document of exercise one into the following web pages:

3.1. A web page showing the table in exercise one

3.2. A web page showing the table of the next image:

DETALLE	PRECIO (SIN IVA)	PRECIO (CON IVA)
LEOTARDOS	1	1.21
CALCETINES ALGODON	2	2.42
PACK CALCETINES	1	1.21
CALCETINES DEPORTE CORTO	1	1.21
CALCETINES DEPORTE LARGO	8	9.68
PACK MEDIAS	4	4.84
CALCETINES HILO	15	18.15
CALCETINES NYLON	2	2.42
JERSEY MULTICOLOR	10	12.1
JERSEY LANA	15	18.15
JERSEY HILO	10	12.1
JERSEY ALGODON	5	6.05
PACK CAMISETAS ALGODON	2	2.42
PACK CAMISETAS NYLON	1	1.21
CAMISETA NYLON	2	2.42
CAMISETA ALGODON	5	6.05
BUFANDA LANA	20	24.2
GORRO NYLON	4	4.84
CINTA NYLON	2	2.42
GUANTES SEDA LUJO	3	3.63
PACK BUFANDA	1	1.21
GORRO LANA	1	1.21
GORRO HILO	3	3.63
OREJERAS	3	3.63

3.3. A web page showing a table with information about T-Shirts and complements:

ARTÍCULO	DETALLE	PRECIO	ORDEN	REFERENCIA
Camiseta	PACK CAMISETAS ALGODON	2	R	M38
Camiseta	PACK CAMISETAS NYLON	1	R	M43
Camiseta	CAMISETA NYLON	2	R	M36
Camiseta	CAMISETA ALGODON	5	R	M18
Complementos	BUFANDA LANA	20	M	S08
Complementos	GORRO NYLON	4	M	S35
Complementos	CINTA NYLON	2	C	S09
Complementos	GUANTES SEDA LUJO	3	M	S80
Complementos	PACK BUFANDA	1	M	S17
Complementos	GORRO LANA	1	M	S11
Complementos	GORRO HILO	3	M	S12
Complementos	OREJERAS	3	M	S13

3.4. A web page showing a table with information about T-Shirts and complements, adding an extra file for each type of product, with the number of articles of that product.

ARTÍCULO	DETALLE	PRECIO	ORDEN	REFERENCIA
Camiseta	PACK CAMISETAS ALGODON	2	R	M38
Camiseta	PACK CAMISETAS NYLON	1	R	M43
Camiseta	CAMISETA NYLON	2	R	M36
Camiseta	CAMISETA ALGODON	5	R	M18
Número total artículos	**4**			
Complementos	BUFANDA LANA	20	M	S08
Complementos	GORRO NYLON	4	M	S35
Complementos	CINTA NYLON	2	C	S09
Complementos	GUANTES SEDA LUJO	3	M	S80
Complementos	PACK BUFANDA	1	M	S17
Complementos	GORRO LANA	1	M	S11
Complementos	GORRO HILO	3	M	S12
Complementos	OREJERAS	3	M	S13
Número total artículos	**8**			

3.5. A web page showing a table with information about pullovers, ordered by detail, and with a last file showing the average price of all the articles.

ARTÍCULO	DETALLE	PRECIO	ORDEN	REFERENCIA
Jersey	JERSEY ALGODON	5	J	J33
Jersey	JERSEY HILO	10	J	J15
Jersey	JERSEY LANA	15	J	J14
Jersey	JERSEY MULTICOLOR	10	J	J66
Precio medio	**10**			

4. Write a JSON document with the information of the table (adding only two articles of each type of product).