

# La proposition de transformation du XML

1. Pour transformer de la source, on a besoin de 3 fichiers.
  - XML source
  - XML schéma
  - XSL modèle
2. D'abord, en utilisant la structure des données de la source, il faut générer le fichier schéma, y compris tous les éléments.

Source :

```
<ERCDB.dbo.ViewMSList-Regions-grouped>
  <ISOCODE>AD</ISOCODE>
  <Capital>Andorra la Vella</Capital>
  <ISO3>AND</ISO3>
  <ExBMem>0</ExBMem>
  <GroupEB>I</GroupEB>
  <WHSites>1</WHSites>
  <CountryE>Andorra</CountryE>
  <CountryF>Andorre</CountryF><
CountryS>Andorra</CountryS>
  <CountryA>أندورا</CountryA>
  <CountryR>Андорра</CountryR>
  <CountryC>安道尔</CountryC>
  <Long_x0020_Country_x0020_NameE>the Principality of Andorra</Long_x0020_Country_x0020_NameE>
  <Long_x0020_Country_x0020_NameF>la Principauté d'Andorre</Long_x0020_Country_x0020_NameF>
  <Long_x0020_Country_x0020_NameS>el Principado de Andorra</Long_x0020_Country_x0020_NameS>
  <Long_x0020_Country_x0020_NameA>إمارة أندورا</Long_x0020_Country_x0020_NameA>
  <Long_x0020_Country_x0020_NameC>安道尔公国</Long_x0020_Country_x0020_NameC>
  <Long_x0020_Country_x0020_NameR>Княжество Андорра</Long_x0020_Country_x0020_NameR>
  <CodeType>1</CodeType>
  <MembershipDate>1993-10-20T00:00:00</MembershipDate>
  <UNESCO>20 October 1993</UNESCO>
  <FactSheet>http://www.unesco.org/eri/cp/factsheets/AND_facts_figures.pdf</FactSheet>
  <GOAP>http://www.unesco.org/new/en/communication-and-information/portals-and-
platforms/goap/access-by-region/europe-and-north-america/andorra/</GOAP>
  <CapitalE>Andorra la Vella</CapitalE>
  <CapitalF>Andorra la Vella</CapitalF>
  <UNRegionE>Europe</UNRegionE>
  <UNRegionF>Europe</UNRegionF>
  <UNRegionA>أوروبا</UNRegionA>
  <RegionE>Europe and North America</RegionE>
  <RegionF>Europe et Amérique du Nord</RegionF>
  <RegionS>Europa y América del Norte</RegionS>
  <RegionA>الشمالية وأميركا وأوروبا</RegionA>
  <RegionC>欧洲与北美洲</RegionC>
  <RegionR>Европа и Северная Америка</RegionR>
  <CountryURL>Andorra</CountryURL>
  <Latitude>42.506317</Latitude>
  <Longitude>1.521835</Longitude>
</ERCDB.dbo.ViewMSList-Regions-grouped>
```

Schéma :

```
<?xml version="1.0" encoding="utf-8"?>
<xsd:schema attributeFormDefault="unqualified" elementFormDefault="qualified" version="1.0"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:element name="Countries">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element maxOccurs="unbounded" name="ERCDB.dbo.ViewMSList-Regions-grouped">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="ISOCODE" type="xsd:string" />
              <xsd:element name="Capital" type="xsd:string" />
              <xsd:element name="ISO3" type="xsd:string" />
              <xsd:element name="ExBMem" type="xsd:int" />
              <xsd:element name="GroupEB" type="xsd:string" />
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
</xsd:schema>
```

```

<xsd:element name="WHSites" type="xsd:int" />
<xsd:element name="CountryE" type="xsd:string" />
<xsd:element name="CountryF" type="xsd:string" />
<xsd:element name="CountryS" type="xsd:string" />
<xsd:element name="CountryA" type="xsd:string" />
<xsd:element name="CountryR" type="xsd:string" />
<xsd:element name="CountryC" type="xsd:string" />
<xsd:element name="Long_x0020_Country_x0020_NameE" type="xsd:string" />
<xsd:element name="Long_x0020_Country_x0020_NameF" type="xsd:string" />
<xsd:element name="Long_x0020_Country_x0020_NameS" type="xsd:string" />
<xsd:element name="Long_x0020_Country_x0020_NameA" type="xsd:string" />
<xsd:element name="Long_x0020_Country_x0020_NameC" type="xsd:string" />
<xsd:element name="Long_x0020_Country_x0020_NameR" type="xsd:string" />
<xsd:element name="CodeType" type="xsd:int" />
<xsd:element name="MembershipDate" type="xsd:dateTime" />
<xsd:element name="UNESCO" type="xsd:dateTime" />
<xsd:element name="FactSheet" type="xsd:string" />
<xsd:element name="GOAP" type="xsd:string" />
<xsd:element name="CapitalE" type="xsd:string" />
<xsd:element name="CapitalF" type="xsd:string" />
<xsd:element name="UNRegionE" type="xsd:string" />
<xsd:element name="UNRegionF" type="xsd:string" />
<xsd:element name="UNRegionA" type="xsd:string" />
<xsd:element name="RegionE" type="xsd:string" />
<xsd:element name="RegionF" type="xsd:string" />
<xsd:element name="RegionS" type="xsd:string" />
<xsd:element name="RegionA" type="xsd:string" />
<xsd:element name="RegionC" type="xsd:string" />
<xsd:element name="RegionR" type="xsd:string" />
<xsd:element name="CountryURL" type="xsd:string" />
<xsd:element name="Latitude" type="xsd:decimal" />
<xsd:element name="Longitude" type="xsd:decimal" />
</xsd:sequence>
</xsd:complexType>
</xsd:element>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
</xsd:schema>

```

3. Selon les fichiers schéma, concevoir le modèle de transformation en xsl.

XSL modele :

```

<xsl:template match="ERCDB.dbo.ViewMSList-Regions-grouped">
  <xsl:element name="country">
    <xsl:apply-templates/>
  </xsl:element>
</xsl:template>

<xsl:template match="ISOCode">
  <xsl:element name="ISOCode">
    <xsl:apply-templates/>
  </xsl:element>
</xsl:template>

```

4. lancer le command « xsltproc -v ./modele.xsl ./source.xml  
> destination.xml » dans la terminal, le fichier va être créé automatiquement.