## Practical 04 - Build xsd and xml for Music Collection

# **Objectives:**

- To produce a valid .xsd file based on the scenario below.
- To produce a valid .xml file based on the .xsd file, filled with credible sample data.

### **Scenario:**

- We have a Music Collection.
- The collection consists of Albums.
- An Album has a Genre, Year, Artist, Title, and two or more Tracks.
- A Track has a Title, a Duration, an Artist and a Track Number.
- Valid Genres are Metal, Pop, Jazz and Classical.

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#### **Sample Solution:**

```
<?xml version="1.0" encoding="UTF-8"?>
<schema xmlns="http://www.w3.org/2001/XMLSchema"</pre>
targetNamespace="http://www.ipa.ie.org/soa and ws/corishb/music collection"
xmlns:tns="http://www.ipa.ie.org/music collection" elementFormDefault="qualified">
<element name="music collection" type="tns:music collection type"></element>
<complexType name="album type">
<sequence>
<element name="genre" type="string" minOccurs="1" maxOccurs="1"></element>
<element name="year" type="qYear" minOccurs="1" maxOccurs="1"></element>
<element name="artist" type="string" minOccurs="1" maxOccurs="1"></element>
<element name="title" type="string" minOccurs="1" maxOccurs="1"></element>
<element name="track" type="tns:track type" minOccurs="1" maxOccurs="unbounded"></element>
</sequence>
</complexType>
<complexType name="music collection type">
<sequence>
<element name="album" type="tns:album type" minOccurs="0" maxOccurs="unbounded"></element>
</sequence>
</complexType>
<complexType name="track type">
<sequence>
<element name="title" type="string" minOccurs="1" maxOccurs="1"></element>
<element name="duration" type="duration" minOccurs="1" maxOccurs="1"></element>
<element name="track num" minOccurs="1" maxOccurs="1" type="positiveInteger">
</element>
</sequence>
</complexType>
</schema>
```