Série TD 2

Web Sémantique. Décrire avec RDF et RDFS.

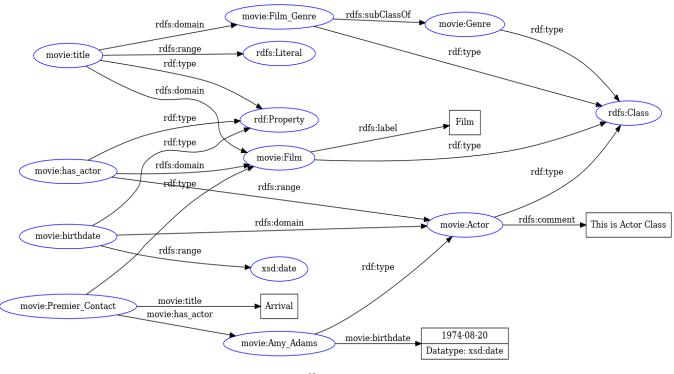
Exercice 1

Niveau M2-ISIL

1) Définir le vocabulaire RDFS/XML et le graphe RDF/XML (deux documents XML séparés) modélisant les informations décrites dans le graphe suivant :

N.B: Ci-dessous, les namespaces utilisés :

✓ movie: http://www.movies_example.org/terms#
✓ rdfs: http://www.w3.org/2000/01/rdf-schema#
✓ rdf: http://www.w3.org/1999/02/22-rdf-syntax-ns#
✓ xsd: http://www.w3.org/2001/XMLSchema#



Namespaces: rdfs: http://www.w3.org/2000/01/rdf-schema# rdf: http://www.w3.org/1999/02/22-rdf-syntax-ns# xsd: http://www.w3.org/2001/XMLSchema# movie: http://www.movies_example.org/terms#

Correction

1 - RDFS/XML:

```
<rdf:RDF xml:base="http://www.movies example.org/terms"</pre>
        xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
        xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#" >
 <rdfs:Class rdf:ID="Film">
    <rdfs:label>Film</rdfs:label>
 </rdfs:Class>
 <rdfs:Class rdf:ID="Actor">
    <rdfs:comment>This is Actor Class</rdfs:comment>
 </rdfs:Class>
 <rdfs:Class rdf:ID="Genre"/>
 <rdfs:Class rdf:ID="Film_Genre">
    <rdfs:subClassOf rdf:resource="#Genre"/>
 </rdfs:Class>
 <rdf:Property rdf:ID="has_actor">
    <rdfs:domain rdf:resource="#Film"/>
    <rdfs:range rdf:resource="#Actor"/>
 </rdf:Property>
 <rdf:Property rdf:ID="title">
    <rdfs:domain rdf:resource="#Film"/>
   <rdfs:domain rdf:resource="#Film Genre"/>
    <rdfs:range rdf:resource="http://www.w3.org/2000/01/rdf-schema#Literal"/>
 </rdf:Property>
 <rdf:Property rdf:ID="birthdate">
   <rdfs:domain rdf:resource="#Actor"/>
    <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#date"/>
 </rdf:Property>
</rdf:RDF>
```

Ou bien:

```
<rdfs:comment>This is Actor Class</rdfs:comment>
 </rdfs:Class>
 <rdfs:Class rdf:about=" http://www.movies example.org/terms#Genre" />
 <rdfs:Class rdf:about=" http://www.movies_example.org/terms#Film_Genre">
    <rdfs:subClassOf rdf:resource=" http://www.movies_example.org/terms#Genre"/>
 </rdfs:Class>
 <rdf:Property rdf:about=" http://www.movies_example.org/terms#has_actor">
    <rdfs:domain rdf:resource=" http://www.movies_example.org/terms#Film"/>
    <rdfs:range rdf:resource=" http://www.movies_example.org/terms#Actor"/>
 </rdf:Property>
 <rdf:Property rdf:about=" http://www.movies_example.org/terms#title">
    <rdfs:domain rdf:resource=" http://www.movies_example.org/terms#Film"/>
    <rdfs:domain rdf:resource=" http://www.movies_example.org/terms#Film_Genre"/>
    <rdfs:range rdf:resource="http://www.w3.org/2000/01/rdf-schema#Literal"/>
 </rdf:Property>
 <rdf:Property rdf:about=" http://www.movies_example.org/terms#birthdate">
    <rdfs:domain rdf:resource=" http://www.movies_example.org/terms#Actor"/>
    <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#date"/>
 </rdf:Property>
</rdf:RDF>
```

1 - RDF/XML: