PRABAL GHOSH   ROLL-40

RDF-TURTLE

@prefix ex: <http://example.com/ex#> .
@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
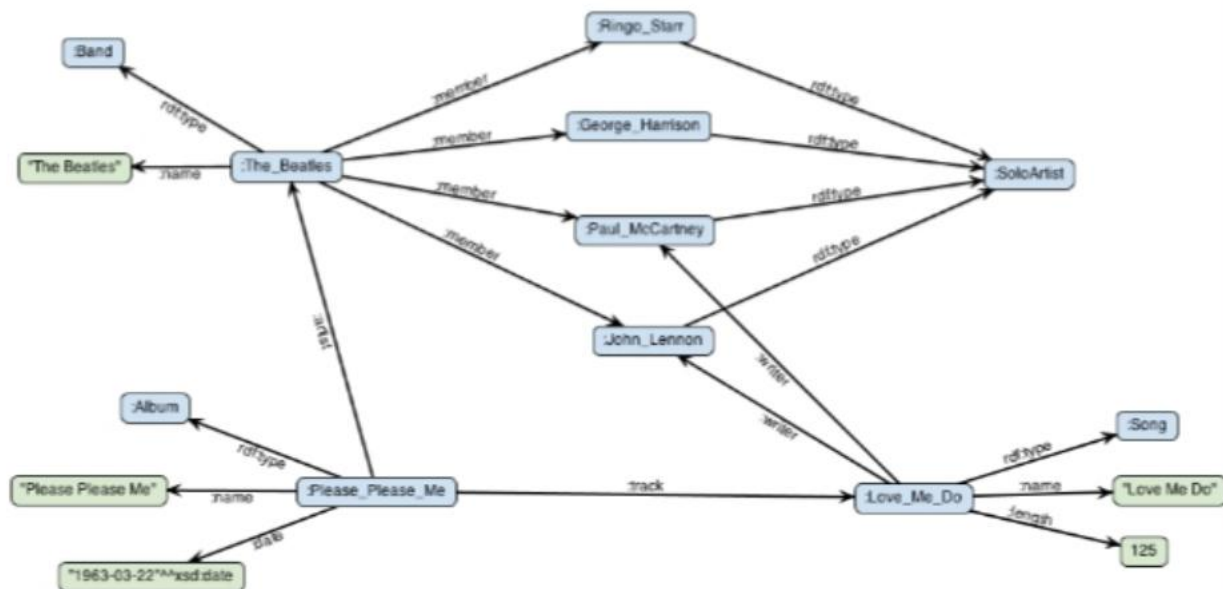
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .

@prefix xml: <http://www.w3.org/XML/1998/namespace> .

@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .

ex:Band   a rdfs:class.
ex:SoloArtist a rdfs:class.
ex:Album a rdfs:class.
ex:Song a rdfs:class.

ex:The_Beatles   a   ex:Band;
        ex:name   'TheBeatles'^^xsd:string;
      ex:member ex:Ringo_Starr,
                    ex:Hamison,

```
                    ex:Paul_MaCartney,
                    ex:John_Lennon.
ex:Please_Please_me    a    ex:Album;
            ex:artist    ex:The_Beatles ;
        ex:name   'Please Please me'^^xsd:string;
        ex:date '1968-03-22'^^xsd:date;
            ex:track   ex:Love_Me_Do.

ex:Love_Me_Do        a     ex:Song;
        ex:name    'Love Me Do'@en;
        ex:length    '120'^^xsd:integer;
        ex:writer        ex:Paul_MaCartney,
                        ex:John_Lennon.


ex:name     a        rdf:Property;
            rdfs:domain  ex:Band,
                            ex:Album,
                            ex:Song ;
    rdfs:range xsd:string .

ex:date        a        rdf:Property;
        rdfs:domain      ex:Album;
    rdfs:range      xsd:date.


ex:artist        a            rdf:Property;
        rdfs:domain      ex:Album;
    rdfs:range      ex:Band.

ex:track        a            rdf:Property;
        rdfs:domain      ex:Album;
    rdfs:range      ex:Song.


ex:length    a    rdf:Property;
    rdfs:domain      ex:Song;
    rdfs:range      '125'^^xsd:integer.

ex:member    a        rdf:Property;
    rdfs:domain      ex:Band;
    rdfs:range      ex:SoloArtist.


ex:Ringo_Starr      a    ex:SoloArtist.
ex:Hamison                a        ex:SoloArtist.
ex:Paul_MaCartney        a        ex:SoloArtist.
ex:John_Lennon                a        ex:SoloArtist.
```

ex:Hamison

ex:Paul_MaCartney

ex:Ringo_Starr

ex:John_Lennon

ex:The_Beatles

ex:SoloArtist

ex:member

ex:member

ex:member

ex:member

ex:writer

rdf:type

rdf:type

rdf:type

rdf:type

rdf:type

rdfs:range

ex:name

TheBeatles
Datatype: xsd:string

ex:writer

ex:member

ex:Band

rdfs:domain

rdfs:range

rdf:type

ex:artist

rdf:type

rdfs:domain

ex:name

rdfs:range

xsd:string

rdf:type

rdfs:domain

rdfs:domain

rdf:Property

ex:Album

rdf:type

rdf:type

rdf:type

rdfs:class

rdf:type

rdf:type

rdf:type

ex:Love_Me_Do

ex:name

Love Me Do
Language: en

ex:length

120
Datatype: xsd:integer

ex:date

rdfs:domain

rdfs:domain

ex:track

rdfs:range

xsd:date

ex:length

rdfs:range

ex:Song

ex:artist

ex:track

ex:Please_Please_me

ex:name

Please Please me
Datatype: xsd:string

ex:date

1968-03-22
Datatype: xsd:date

rdf:type

rdfs:domain

rdfs:range

125
Datatype: xsd:integer

rdf:type

Namespaces:
ex: http://example.com/ex#
rdf: http://www.w3.org/1999/02/22-rdf-syntax-ns#
rdfs: http://www.w3.org/2000/01/rdf-schema#
xml: http://www.w3.org/XML/1998/namespace
xsd: http://www.w3.org/2001/XMLSchema#

METHOD-(RDF-XML)

```xml
<?xml version="1.0" encoding="utf-8" ?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
         xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
         xmlns:ns0="http://example.com/ex#">

  <rdfs:class rdf:about="http://example.com/ex#Band">
  </rdfs:class>

  <rdfs:class rdf:about="http://example.com/ex#SoloArtist">
  </rdfs:class>

  <rdfs:class rdf:about="http://example.com/ex#Album">
  </rdfs:class>

  <rdfs:class rdf:about="http://example.com/ex#Song">
  </rdfs:class>

  <rdf:Description rdf:about="http://example.com/ex#The_Beatles">
    <rdf:type rdf:resource="http://example.com/ex#Band"/>
    <ns0:name
rdf:datatype="http://www.w3.org/2001/XMLSchema#string">TheBeatles</ns0:name>
    <ns0:member>
      <ns0:SoloArtist rdf:about="http://example.com/ex#Ringo_Starr">
      </ns0:SoloArtist>
    </ns0:member>

    <ns0:member>
      <ns0:SoloArtist rdf:about="http://example.com/ex#Hamison">
      </ns0:SoloArtist>
    </ns0:member>

    <ns0:member rdf:resource="http://example.com/ex#Paul_MaCartney"/>
    <ns0:member rdf:resource="http://example.com/ex#John_Lennon"/>
  </rdf:Description>

  <ns0:Album rdf:about="http://example.com/ex#Please_Please_me">
    <ns0:artist rdf:resource="http://example.com/ex#The_Beatles"/>
    <ns0:name rdf:datatype="http://www.w3.org/2001/XMLSchema#string">Please Please
me</ns0:name>
    <ns0:date rdf:datatype="http://www.w3.org/2001/XMLSchema#date">1968-03-
22</ns0:date>
    <ns0:track>
      <ns0:Song rdf:about="http://example.com/ex#Love_Me_Do">
        <ns0:name xml:lang="en">Love Me Do</ns0:name>
        <ns0:length
rdf:datatype="http://www.w3.org/2001/XMLSchema#integer">120</ns0:length>
        <ns0:writer rdf:resource="http://example.com/ex#Paul_MaCartney"/>
        <ns0:writer rdf:resource="http://example.com/ex#John_Lennon"/>
      </ns0:Song>
    </ns0:track>
```

```xml
    </ns0:Album>

    <rdf:Property rdf:about="http://example.com/ex#name">
      <rdfs:domain rdf:resource="http://example.com/ex#Band"/>
      <rdfs:domain rdf:resource="http://example.com/ex#Album"/>
      <rdfs:domain rdf:resource="http://example.com/ex#Song"/>
      <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    </rdf:Property>

    <rdf:Property rdf:about="http://example.com/ex#date">
      <rdfs:domain rdf:resource="http://example.com/ex#Album"/>
      <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#date"/>
    </rdf:Property>

    <rdf:Property rdf:about="http://example.com/ex#artist">
      <rdfs:domain rdf:resource="http://example.com/ex#Album"/>
      <rdfs:range rdf:resource="http://example.com/ex#Band"/>
    </rdf:Property>

    <rdf:Property rdf:about="http://example.com/ex#track">
      <rdfs:domain rdf:resource="http://example.com/ex#Album"/>
      <rdfs:range rdf:resource="http://example.com/ex#Song"/>
    </rdf:Property>

    <rdf:Property rdf:about="http://example.com/ex#length">
      <rdfs:domain rdf:resource="http://example.com/ex#Song"/>
      <rdfs:range
rdf:datatype="http://www.w3.org/2001/XMLSchema#integer">125</rdfs:range>
    </rdf:Property>

    <rdf:Property rdf:about="http://example.com/ex#member">
      <rdfs:domain rdf:resource="http://example.com/ex#Band"/>
      <rdfs:range rdf:resource="http://example.com/ex#SoloArtist"/>
    </rdf:Property>

    <ns0:SoloArtist rdf:about="http://example.com/ex#Paul_MaCartney">
    </ns0:SoloArtist>

    <ns0:SoloArtist rdf:about="http://example.com/ex#John_Lennon">
    </ns0:SoloArtist>

</rdf:RDF>
```

METHOD-RDF-TURTLE

```turtle
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix ns0: <http://example.com/ex#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .

<http://example.com/ex#Band> a rdfs:class .
<http://example.com/ex#SoloArtist> a rdfs:class .
<http://example.com/ex#Album> a rdfs:class .
<http://example.com/ex#Song> a rdfs:class .
<http://example.com/ex#The_Beatles>
  a <http://example.com/ex#Band> ;
  ns0:name "TheBeatles"^^xsd:string ;
  ns0:member ns0:Ringo_Starr, ns0:Hamison, ns0:Paul_MaCartney, ns0:John_Lennon .

ns0:Please_Please_me
  a ns0:Album ;
  ns0:artist ns0:The_Beatles ;
  ns0:name "Please Please me"^^xsd:string ;
  ns0:date "1968-03-22"^^xsd:date ;
  ns0:track ns0:Love_Me_Do .

ns0:Love_Me_Do
  a ns0:Song ;
  ns0:name "Love Me Do"@en ;
  ns0:length 120 ;
  ns0:writer ns0:Paul_MaCartney, ns0:John_Lennon .

ns0:name
  a rdf:Property ;
  rdfs:domain ns0:Band, ns0:Album, ns0:Song ;
  rdfs:range xsd:string .

ns0:date
  a rdf:Property ;
  rdfs:domain ns0:Album ;
  rdfs:range xsd:date .

ns0:artist
  a rdf:Property ;
  rdfs:domain ns0:Album ;
  rdfs:range ns0:Band .

ns0:track
  a rdf:Property ;
  rdfs:domain ns0:Album ;
  rdfs:range ns0:Song .

ns0:length
  a rdf:Property ;
  rdfs:domain ns0:Song ;
```

```
  rdfs:range 125 .

ns0:member
  a rdf:Property ;
  rdfs:domain ns0:Band ;
  rdfs:range ns0:SoloArtist .

ns0:Ringo_Starr a ns0:SoloArtist .
ns0:Hamison a ns0:SoloArtist .
ns0:Paul_MaCartney a ns0:SoloArtist .
ns0:John_Lennon a ns0:SoloArtist .
```

METHOD- N TRIPLES

```
<http://example.com/ex#Band> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://www.w3.org/2000/01/rdf-schema#class> .
<http://example.com/ex#SoloArtist> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://www.w3.org/2000/01/rdf-schema#class> .
<http://example.com/ex#Album> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://www.w3.org/2000/01/rdf-schema#class> .
<http://example.com/ex#Song> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://www.w3.org/2000/01/rdf-schema#class> .
<http://example.com/ex#The_Beatles> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://example.com/ex#Band> .
<http://example.com/ex#The_Beatles> <http://example.com/ex#name>
"TheBeatles"^^<http://www.w3.org/2001/XMLSchema#string> .
<http://example.com/ex#The_Beatles> <http://example.com/ex#member>
<http://example.com/ex#Ringo_Starr> .
<http://example.com/ex#The_Beatles> <http://example.com/ex#member>
<http://example.com/ex#Hamison> .
<http://example.com/ex#The_Beatles> <http://example.com/ex#member>
<http://example.com/ex#Paul_MaCartney> .
<http://example.com/ex#The_Beatles> <http://example.com/ex#member>
<http://example.com/ex#John_Lennon> .
<http://example.com/ex#Please_Please_me> <http://www.w3.org/1999/02/22-rdf-syntax-
ns#type> <http://example.com/ex#Album> .
<http://example.com/ex#Please_Please_me> <http://example.com/ex#artist>
<http://example.com/ex#The_Beatles> .
<http://example.com/ex#Please_Please_me> <http://example.com/ex#name> "Please Please
me"^^<http://www.w3.org/2001/XMLSchema#string> .
<http://example.com/ex#Please_Please_me> <http://example.com/ex#date> "1968-03-
22"^^<http://www.w3.org/2001/XMLSchema#date> .
<http://example.com/ex#Please_Please_me> <http://example.com/ex#track>
<http://example.com/ex#Love_Me_Do> .
<http://example.com/ex#Love_Me_Do> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://example.com/ex#Song> .
<http://example.com/ex#Love_Me_Do> <http://example.com/ex#name> "Love Me Do"@en .
<http://example.com/ex#Love_Me_Do> <http://example.com/ex#length>
"120"^^<http://www.w3.org/2001/XMLSchema#integer> .
```

```
<http://example.com/ex#Love_Me_Do> <http://example.com/ex#writer>
<http://example.com/ex#Paul_MaCartney> .
<http://example.com/ex#Love_Me_Do> <http://example.com/ex#writer>
<http://example.com/ex#John_Lennon> .
<http://example.com/ex#name> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://www.w3.org/1999/02/22-rdf-syntax-ns#Property> .
<http://example.com/ex#name> <http://www.w3.org/2000/01/rdf-schema#domain>
<http://example.com/ex#Band> .
<http://example.com/ex#name> <http://www.w3.org/2000/01/rdf-schema#domain>
<http://example.com/ex#Album> .
<http://example.com/ex#name> <http://www.w3.org/2000/01/rdf-schema#domain>
<http://example.com/ex#Song> .
<http://example.com/ex#name> <http://www.w3.org/2000/01/rdf-schema#range>
<http://www.w3.org/2001/XMLSchema#string> .
<http://example.com/ex#date> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://www.w3.org/1999/02/22-rdf-syntax-ns#Property> .
<http://example.com/ex#date> <http://www.w3.org/2000/01/rdf-schema#domain>
<http://example.com/ex#Album> .
<http://example.com/ex#date> <http://www.w3.org/2000/01/rdf-schema#range>
<http://www.w3.org/2001/XMLSchema#date> .
<http://example.com/ex#artist> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://www.w3.org/1999/02/22-rdf-syntax-ns#Property> .
<http://example.com/ex#artist> <http://www.w3.org/2000/01/rdf-schema#domain>
<http://example.com/ex#Album> .
<http://example.com/ex#artist> <http://www.w3.org/2000/01/rdf-schema#range>
<http://example.com/ex#Band> .
<http://example.com/ex#track> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://www.w3.org/1999/02/22-rdf-syntax-ns#Property> .
<http://example.com/ex#track> <http://www.w3.org/2000/01/rdf-schema#domain>
<http://example.com/ex#Album> .
<http://example.com/ex#track> <http://www.w3.org/2000/01/rdf-schema#range>
<http://example.com/ex#Song> .
<http://example.com/ex#length> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://www.w3.org/1999/02/22-rdf-syntax-ns#Property> .
<http://example.com/ex#length> <http://www.w3.org/2000/01/rdf-schema#domain>
<http://example.com/ex#Song> .
<http://example.com/ex#length> <http://www.w3.org/2000/01/rdf-schema#range>
"125"^^<http://www.w3.org/2001/XMLSchema#integer> .
<http://example.com/ex#member> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://www.w3.org/1999/02/22-rdf-syntax-ns#Property> .
<http://example.com/ex#member> <http://www.w3.org/2000/01/rdf-schema#domain>
<http://example.com/ex#Band> .
<http://example.com/ex#member> <http://www.w3.org/2000/01/rdf-schema#range>
<http://example.com/ex#SoloArtist> .
<http://example.com/ex#Ringo_Starr> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://example.com/ex#SoloArtist> .
<http://example.com/ex#Hamison> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://example.com/ex#SoloArtist> .
<http://example.com/ex#Paul_MaCartney> <http://www.w3.org/1999/02/22-rdf-syntax-
ns#type> <http://example.com/ex#SoloArtist> .
<http://example.com/ex#John_Lennon> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://example.com/ex#SoloArtist> .
```

METHOD-1- (OWL) TURTLE

```turtle
@prefix owl: <http://www.w3.org/2002/07/owl#>.
@prefix xsd: <http://www.w3c.org/2001/XMLSchema#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@base <http://dbpedia.org/resource/> .
@prefix ex: <http://example.com/> .

ex:Band   a  owl:class.
ex:SoloArtist  a  owl:class.
ex:Album  a  owl:class.
ex:Song  a  owl:class.

ex:The_Beatles   a   ex:Band;
       ex:name   'TheBeatles'^^xsd:string;
      ex:member  ex:Ringo_Starr,
                    ex:Hamison,
                 ex:Paul_MaCartney,
                 ex:John_Lennon.
ex:Please_Please_me    a   ex:Album;
          ex:artist    ex:The_Beatles ;
         ex:name   'Please Please me'^^xsd:string;
         ex:date '1968-03-22'^^xsd:date;
            ex:track   ex:Love_Me_Do.

ex:Love_Me_Do        a      ex:Song;
          ex:name    'Love Me Do'@en;
         ex:length    '120'^^xsd:integer;
          ex:writer        ex:Paul_MaCartney,
                     ex:John_Lennon.


ex:name       a       owl:DatatypeProperty;
            rdfs:domain  ex:Band,
                              ex:Album,
                              ex:Song ;
    rdfs:range xsd:string .

ex:date       a       owl:DatatypeProperty;
         rdfs:domain      ex:Album;
     rdfs:range      xsd:date.


ex:artist         a           owl:ObjectProperty;
```

```
                rdfs:domain        ex:Album;
        rdfs:range        ex:Band.


    ex:track          a                owl:ObjectProperty;
                rdfs:domain        ex:Album;
        rdfs:range        ex:Song.



    ex:length    a        owl:DatatypeProperty;
        rdfs:domain        ex:Song;
        rdfs:range        '125'^^xsd:integer.


    ex:member        a                owl:ObjectProperty;
        rdfs:domain        ex:Band;
        rdfs:range        ex:SoloArtist.



    ex:Ringo_Starr          a      ex:SoloArtist.
    ex:Hamison                      a          ex:SoloArtist.
    ex:Paul_MaCartney               a          ex:SoloArtist.
    ex:John_Lennon                  a          ex:SoloArtist.
```


Namespaces:
owl: http://www.w3.org/2002/07/owl#
xsd: http://www.w3.org/2001/XMLSchema#
rdfs: http://www.w3.org/2000/01/rdf-schema#
ex: http://example.com/

RDF-TURTLE (SAME AS THE METHOD 1)

```
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix ns0: <http://example.com/> .
@prefix ns1: <http://www.w3c.org/2001/XMLSchema#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .

<http://example.com/Band> a owl:class .
<http://example.com/SoloArtist> a owl:class .
<http://example.com/Album> a owl:class .
<http://example.com/Song> a owl:class .
<http://example.com/The_Beatles>
 a <http://example.com/Band> ;
 ns0:name "TheBeatles"^^ns1:string ;
 ns0:member ns0:Ringo_Starr, ns0:Hamison, ns0:Paul_MaCartney, ns0:John_Lennon .

ns0:Ringo_Starr a ns0:SoloArtist .
ns0:Hamison a ns0:SoloArtist .
ns0:Please_Please_me
 a ns0:Album ;
 ns0:artist ns0:The_Beatles ;
 ns0:name "Please Please me"^^ns1:string ;
 ns0:date "1968-03-22"^^ns1:date ;
 ns0:track ns0:Love_Me_Do .

ns0:Love_Me_Do
 a ns0:Song ;
 ns0:name "Love Me Do"@en ;
 ns0:length "120"^^ns1:integer ;
 ns0:writer ns0:Paul_MaCartney, ns0:John_Lennon .

ns0:name
 a owl:DatatypeProperty ;
 rdfs:domain ns0:Band, ns0:Album, ns0:Song ;
 rdfs:range ns1:string .

ns0:date
 a owl:DatatypeProperty ;
 rdfs:domain ns0:Album ;
 rdfs:range ns1:date .

ns0:artist
 a owl:ObjectProperty ;
 rdfs:domain ns0:Album ;
 rdfs:range ns0:Band .
```

```
ns0:track
  a owl:ObjectProperty ;
  rdfs:domain ns0:Album ;
  rdfs:range ns0:Song .

ns0:length
  a owl:DatatypeProperty ;
  rdfs:domain ns0:Song ;
  rdfs:range "125"^^ns1:integer .

ns0:member
  a owl:ObjectProperty ;
  rdfs:domain ns0:Band ;
  rdfs:range ns0:SoloArtist .


ns0:Paul_MaCartney a ns0:SoloArtist .
ns0:John_Lennon a ns0:SoloArtist .
```

METHOD-2   (OWL)RDF-XML

```xml
<?xml version="1.0" encoding="utf-8" ?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
     xmlns:owl="http://www.w3.org/2002/07/owl#"
     xmlns:ns0="http://example.com/"
     xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#">

 <owl:class rdf:about="http://example.com/Band">
 </owl:class>

 <owl:class rdf:about="http://example.com/SoloArtist">
 </owl:class>

 <owl:class rdf:about="http://example.com/Album">
 </owl:class>

 <owl:class rdf:about="http://example.com/Song">
 </owl:class>

 <rdf:Description rdf:about="http://example.com/The_Beatles">
  <rdf:type rdf:resource="http://example.com/Band"/>
  <ns0:name rdf:datatype="http://www.w3c.org/2001/XMLSchema#string">TheBeatles</ns0:name>
  <ns0:member>
    <ns0:SoloArtist rdf:about="http://example.com/Ringo_Starr">
    </ns0:SoloArtist>
```

```xml
    </ns0:member>

  <ns0:member>
    <ns0:SoloArtist rdf:about="http://example.com/Hamison">
    </ns0:SoloArtist>
  </ns0:member>

  <ns0:member rdf:resource="http://example.com/Paul_MaCartney"/>
  <ns0:member rdf:resource="http://example.com/John_Lennon"/>
</rdf:Description>

<ns0:Album rdf:about="http://example.com/Please_Please_me">
  <ns0:artist rdf:resource="http://example.com/The_Beatles"/>
  <ns0:name rdf:datatype="http://www.w3c.org/2001/XMLSchema#string">Please Please me</ns0:name>
  <ns0:date rdf:datatype="http://www.w3c.org/2001/XMLSchema#date">1968-03-22</ns0:date>
  <ns0:track>
    <ns0:Song rdf:about="http://example.com/Love_Me_Do">
      <ns0:name xml:lang="en">Love Me Do</ns0:name>
      <ns0:length rdf:datatype="http://www.w3c.org/2001/XMLSchema#integer">120</ns0:length>
      <ns0:writer rdf:resource="http://example.com/Paul_MaCartney"/>
      <ns0:writer rdf:resource="http://example.com/John_Lennon"/>
    </ns0:Song>
  </ns0:track>

</ns0:Album>

<owl:DatatypeProperty rdf:about="http://example.com/name">
  <rdfs:domain rdf:resource="http://example.com/Band"/>
  <rdfs:domain rdf:resource="http://example.com/Album"/>
  <rdfs:domain rdf:resource="http://example.com/Song"/>
  <rdfs:range rdf:resource="http://www.w3c.org/2001/XMLSchema#string"/>
</owl:DatatypeProperty>

<owl:DatatypeProperty rdf:about="http://example.com/date">
  <rdfs:domain rdf:resource="http://example.com/Album"/>
  <rdfs:range rdf:resource="http://www.w3c.org/2001/XMLSchema#date"/>
</owl:DatatypeProperty>

<owl:ObjectProperty rdf:about="http://example.com/artist">
  <rdfs:domain rdf:resource="http://example.com/Album"/>
  <rdfs:range rdf:resource="http://example.com/Band"/>
</owl:ObjectProperty>

<owl:ObjectProperty rdf:about="http://example.com/track">
  <rdfs:domain rdf:resource="http://example.com/Album"/>
  <rdfs:range rdf:resource="http://example.com/Song"/>
</owl:ObjectProperty>

<owl:DatatypeProperty rdf:about="http://example.com/length">
  <rdfs:domain rdf:resource="http://example.com/Song"/>
  <rdfs:range rdf:datatype="http://www.w3c.org/2001/XMLSchema#integer">125</rdfs:range>
</owl:DatatypeProperty>
```

```
<owl:ObjectProperty rdf:about="http://example.com/member">
  <rdfs:domain rdf:resource="http://example.com/Band"/>
  <rdfs:range rdf:resource="http://example.com/SoloArtist"/>
</owl:ObjectProperty>

<ns0:SoloArtist rdf:about="http://example.com/Paul_MaCartney">
</ns0:SoloArtist>

<ns0:SoloArtist rdf:about="http://example.com/John_Lennon">
</ns0:SoloArtist>

</rdf:RDF>
```

(OWL)RDF-XML (SAME AS THE METHOD 2 BUT IN DIFFERENT WAY)

```
<rdf:RDF
    xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
    xmlns:owl="http://www.w3.org/2002/07/owl#"
    xmlns:xsd="http://www.w3c.org/2001/XMLSchema#"
    xmlns:ex="http://example.com/"
    xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#" >
  <rdf:Description rdf:about="http://example.com/Album">
    <rdf:type rdf:resource="http://www.w3.org/2002/07/owl#class"/>
  </rdf:Description>
  <rdf:Description rdf:about="http://example.com/Band">
    <rdf:type rdf:resource="http://www.w3.org/2002/07/owl#class"/>
  </rdf:Description>
```

```xml
<rdf:Description rdf:about="http://example.com/Love_Me_Do">
  <ex:writer rdf:resource="http://example.com/John_Lennon"/>
  <ex:writer rdf:resource="http://example.com/Paul_MaCartney"/>
  <ex:length rdf:datatype="http://www.w3c.org/2001/XMLSchema#integer">120</ex:length>
  <ex:name xml:lang="en">Love Me Do</ex:name>
  <rdf:type rdf:resource="http://example.com/Song"/>
</rdf:Description>
<rdf:Description rdf:about="http://example.com/SoloArtist">
  <rdf:type rdf:resource="http://www.w3.org/2002/07/owl#class"/>
</rdf:Description>
<rdf:Description rdf:about="http://example.com/name">
  <rdfs:range rdf:resource="http://www.w3c.org/2001/XMLSchema#string"/>
  <rdfs:domain rdf:resource="http://example.com/Song"/>
  <rdfs:domain rdf:resource="http://example.com/Album"/>
  <rdfs:domain rdf:resource="http://example.com/Band"/>
  <rdf:type rdf:resource="http://www.w3.org/2002/07/owl#DatatypeProperty"/>
</rdf:Description>
<rdf:Description rdf:about="http://example.com/Paul_MaCartney">
  <rdf:type rdf:resource="http://example.com/SoloArtist"/>
</rdf:Description>
<rdf:Description rdf:about="http://example.com/date">
  <rdfs:range rdf:resource="http://www.w3c.org/2001/XMLSchema#date"/>
  <rdfs:domain rdf:resource="http://example.com/Album"/>
  <rdf:type rdf:resource="http://www.w3.org/2002/07/owl#DatatypeProperty"/>
</rdf:Description>
<rdf:Description rdf:about="http://example.com/track">
  <rdfs:range rdf:resource="http://example.com/Song"/>
  <rdfs:domain rdf:resource="http://example.com/Album"/>
  <rdf:type rdf:resource="http://www.w3.org/2002/07/owl#ObjectProperty"/>
</rdf:Description>
<rdf:Description rdf:about="http://example.com/John_Lennon">
```

```xml
    <rdf:type rdf:resource="http://example.com/SoloArtist"/>
  </rdf:Description>
  <rdf:Description rdf:about="http://example.com/The_Beatles">
   <ex:member rdf:resource="http://example.com/John_Lennon"/>
   <ex:member rdf:resource="http://example.com/Paul_MaCartney"/>
   <ex:member rdf:resource="http://example.com/Hamison"/>
   <ex:member rdf:resource="http://example.com/Ringo_Starr"/>
   <ex:name
rdf:datatype="http://www.w3c.org/2001/XMLSchema#string">TheBeatles</ex:name>
   <rdf:type rdf:resource="http://example.com/Band"/>
  </rdf:Description>
  <rdf:Description rdf:about="http://example.com/Ringo_Starr">
   <rdf:type rdf:resource="http://example.com/SoloArtist"/>
  </rdf:Description>
  <rdf:Description rdf:about="http://example.com/Please_Please_me">
   <ex:track rdf:resource="http://example.com/Love_Me_Do"/>
   <ex:date rdf:datatype="http://www.w3c.org/2001/XMLSchema#date">1968-03-
22</ex:date>
   <ex:name rdf:datatype="http://www.w3c.org/2001/XMLSchema#string">Please Please
me</ex:name>
   <ex:artist rdf:resource="http://example.com/The_Beatles"/>
   <rdf:type rdf:resource="http://example.com/Album"/>
  </rdf:Description>
  <rdf:Description rdf:about="http://example.com/Song">
   <rdf:type rdf:resource="http://www.w3.org/2002/07/owl#class"/>
  </rdf:Description>
  <rdf:Description rdf:about="http://example.com/member">
   <rdfs:range rdf:resource="http://example.com/SoloArtist"/>
   <rdfs:domain rdf:resource="http://example.com/Band"/>
   <rdf:type rdf:resource="http://www.w3.org/2002/07/owl#ObjectProperty"/>
  </rdf:Description>
```

```
<rdf:Description rdf:about="http://example.com/artist">
  <rdfs:range rdf:resource="http://example.com/Band"/>
  <rdfs:domain rdf:resource="http://example.com/Album"/>
  <rdf:type rdf:resource="http://www.w3.org/2002/07/owl#ObjectProperty"/>
</rdf:Description>
<rdf:Description rdf:about="http://example.com/Hamison">
  <rdf:type rdf:resource="http://example.com/SoloArtist"/>
</rdf:Description>
<rdf:Description rdf:about="http://example.com/length">
  <rdfs:range rdf:datatype="http://www.w3c.org/2001/XMLSchema#integer">125</rdfs:range>
  <rdfs:domain rdf:resource="http://example.com/Song"/>
  <rdf:type rdf:resource="http://www.w3.org/2002/07/owl#DatatypeProperty"/>
</rdf:Description>
</rdf:RDF>
```

(OWL) N-TRIPLE

```
<http://example.com/Band> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://www.w3.org/2002/07/owl#class> .
<http://example.com/SoloArtist> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://www.w3.org/2002/07/owl#class> .
<http://example.com/Album> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://www.w3.org/2002/07/owl#class> .
<http://example.com/Song> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://www.w3.org/2002/07/owl#class> .
<http://example.com/The_Beatles> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://example.com/Band> .
<http://example.com/The_Beatles> <http://example.com/name>
"TheBeatles"^^<http://www.w3c.org/2001/XMLSchema#string> .
<http://example.com/The_Beatles> <http://example.com/member>
<http://example.com/Ringo_Starr> .
```

```
<http://example.com/The_Beatles> <http://example.com/member>
<http://example.com/Hamison> .
<http://example.com/The_Beatles> <http://example.com/member>
<http://example.com/Paul_MaCartney> .
<http://example.com/The_Beatles> <http://example.com/member>
<http://example.com/John_Lennon> .
<http://example.com/Ringo_Starr> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://example.com/SoloArtist> .
<http://example.com/Hamison> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://example.com/SoloArtist> .
<http://example.com/Please_Please_me> <http://www.w3.org/1999/02/22-rdf-syntax-
ns#type> <http://example.com/Album> .
<http://example.com/Please_Please_me> <http://example.com/artist>
<http://example.com/The_Beatles> .
<http://example.com/Please_Please_me> <http://example.com/name> "Please Please
me"^^<http://www.w3c.org/2001/XMLSchema#string> .
<http://example.com/Please_Please_me> <http://example.com/date> "1968-03-
22"^^<http://www.w3c.org/2001/XMLSchema#date> .
<http://example.com/Please_Please_me> <http://example.com/track>
<http://example.com/Love_Me_Do> .
<http://example.com/Love_Me_Do> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://example.com/Song> .
<http://example.com/Love_Me_Do> <http://example.com/name> "Love Me Do"@en .
<http://example.com/Love_Me_Do> <http://example.com/length>
"120"^^<http://www.w3c.org/2001/XMLSchema#integer> .
<http://example.com/Love_Me_Do> <http://example.com/writer>
<http://example.com/Paul_MaCartney> .
<http://example.com/Love_Me_Do> <http://example.com/writer>
<http://example.com/John_Lennon> .
<http://example.com/name> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://www.w3.org/2002/07/owl#DatatypeProperty> .
<http://example.com/name> <http://www.w3.org/2000/01/rdf-schema#domain>
<http://example.com/Band> .
<http://example.com/name> <http://www.w3.org/2000/01/rdf-schema#domain>
<http://example.com/Album> .
<http://example.com/name> <http://www.w3.org/2000/01/rdf-schema#domain>
<http://example.com/Song> .
<http://example.com/name> <http://www.w3.org/2000/01/rdf-schema#range>
<http://www.w3c.org/2001/XMLSchema#string> .
<http://example.com/date> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://www.w3.org/2002/07/owl#DatatypeProperty> .
<http://example.com/date> <http://www.w3.org/2000/01/rdf-schema#domain>
<http://example.com/Album> .
<http://example.com/date> <http://www.w3.org/2000/01/rdf-schema#range>
<http://www.w3c.org/2001/XMLSchema#date> .
<http://example.com/artist> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://www.w3.org/2002/07/owl#ObjectProperty> .
<http://example.com/artist> <http://www.w3.org/2000/01/rdf-schema#domain>
<http://example.com/Album> .
<http://example.com/artist> <http://www.w3.org/2000/01/rdf-schema#range>
<http://example.com/Band> .
<http://example.com/track> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://www.w3.org/2002/07/owl#ObjectProperty> .
<http://example.com/track> <http://www.w3.org/2000/01/rdf-schema#domain>
<http://example.com/Album> .
```

```
<http://example.com/track> <http://www.w3.org/2000/01/rdf-schema#range>
<http://example.com/Song> .
<http://example.com/length> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://www.w3.org/2002/07/owl#DatatypeProperty> .
<http://example.com/length> <http://www.w3.org/2000/01/rdf-schema#domain>
<http://example.com/Song> .
<http://example.com/length> <http://www.w3.org/2000/01/rdf-schema#range>
"125"^^<http://www.w3c.org/2001/XMLSchema#integer> .
<http://example.com/member> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://www.w3.org/2002/07/owl#ObjectProperty> .
<http://example.com/member> <http://www.w3.org/2000/01/rdf-schema#domain>
<http://example.com/Band> .
<http://example.com/member> <http://www.w3.org/2000/01/rdf-schema#range>
<http://example.com/SoloArtist> .
<http://example.com/Paul_MaCartney> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://example.com/SoloArtist> .
<http://example.com/John_Lennon> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://example.com/SoloArtist> .
```