# Ex.1

• rdf:type

• rdfs:Class

• rdf:Property

• rdfs:subClassOf

• rdfs:domain

• rdfs:range

• rdfs:subPropertyOf

rdfs:Class as object

rdf:type=a (is)

**There are people, students and music albums (i.e., they are classes).**

ex:people rdf:type rdfs:Class .

ex:student rdf:type rdfs:Class .

ex:musicAlbum rdf:type rdfs:Class .

**Carol is a student**

ex:Carol rdf:type ex:student .

ex:carol a ex:student .

**Students are people. People are animals.**

ex:student rdfs:subClassOf ex:people .

ex:people rdfs:subClassOf ex:animals .

**Bob likes the album “The dark side of the moon”, Alice likes “The wall”.**

ex:like a rdf:Property .

ex:bob ex:like ex:TDSOTM .

ex:alice ex:like ex:thewall .

**Bob has purchased the album “Meddle”, and Alice has purchased the album “Animals”.**

ex:purchase a rdf:Property .

ex:bob ex:purchase ex:Meddle .

ex:alice ex:purchase ex:animals .

**Like, purchase and own are properties.**

ex:own a rdf:Property .

**If someone likes something, then they purchase it.**

(ex:musicAlbum rdf:type rdfs:Class .)

ex:something a rdfs:Class .

ex:musicAlbum rdfs:subClassOf ex:something .

ex:like rdf:subPropertyOf ex:purchase ;

rdfs:domain ex:people ;

rdfs:range ex:something .

**If someone purchases something, then they own it.**

ex:own a rdf:Property .

ex:purchase rdf:subPropertyOf ex:own ;

rdfs:domain ex:people ;

rdfs:range ex:something .

**The property purchase relates people to music albums.**

ex:purchase rdfs:domain ex:people ; rdfs:range ex:musicAlbums .