

SimpleQuery: (a) Select different types of data in store (b) Select all different subjects for object value "mods:Person" (c) Return all predicate for a subject Id.

- a) PREFIX rdf:<http://www.w3.org/1999/02/22-rdf-syntax-ns#>
SELECT DISTINCT ?type
Where
{
 ?instances rdf:type ?type
}
- b) PREFIX mods:<http://simile.mit.edu/2006/01/ontologies/mods3#>
SELECT DISTINCT ?subject
Where
{
 ?subject ?someproperty mods:Person
}
- a) PREFIX mods:<http://simile.mit.edu/2006/01/ontologies/mods3#>
PREFIX info:<info:isbn/>
SELECT DISTINCT ?properties
Where
{
 info:0525070893 ?properties ?object
}

ComplexQuery: (Bushy Pattern) Extract values for recordID, genre, classification, creator, publisher, language, title, subject, contents and optionally audience, format, version, and reference for all text type items.

```
PREFIX rdf:<http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX mods:<http://simile.mit.edu/2006/01/ontologies/mods3#>
PREFIX role:<http://simile.mit.edu/2006/01/role/>

SELECT ?recordID ?genre ?classification ?creator ?publisher ?language ?title ?subject ?contents
?audience ?format ?version ?reference

Where
{
    ?recordID mods:records ?item.
    ?item rdf:type mods:Text.
    ?item mods:genre ?genre.
    ?item mods:classification ?classification.
```

```
?item mods:publisher ?publisher.  
?item mods:subject ?subject.  
?item role:creator ?creator.  
?item mods:language ?language.  
?item mods:title ?title.  
?item mods:contents ?contents.
```

OPTIONAL

```
{  
  ?item mods:audience ?audience.  
  ?item mods:otherFormat ?format.  
  ?item mods:otherVersion ?version.  
  ?item mods:isReferencedBy ?reference  
}  
}
```

ComplexQuery: (Long Chain) Return recordID and type of all that items that are published at more than one location.

```
PREFIX rdf:<http://www.w3.org/1999/02/22-rdf-syntax-ns#>  
PREFIX mods:<http://simile.mit.edu/2006/01/ontologies/mods3#>
```

```
SELECT DISTINCT ?recordID, ?type
```

Where

```
{  
  ?recordID mods:records ?item.  
  ?item rdf:type ?type.  
  ?item mods:publisher ?publisher1.  
  ?publisher1 mods:location ?location1.  
  ?location1 mods:name ?name1.  
  ?item mods:publisher ?publisher2.  
  ?publisher2 mods:location ?location2.  
  ?location2 mods:name ?name2.  
  FILTER(?name1 != ?name2)  
}
```

ResultSize: Return all items of type (a) Text (b) Notated Music (c) Still Image.

```
PREFIX rdf:<http://www.w3.org/1999/02/22-rdf-syntax-ns#>  
PREFIX mods:<http://simile.mit.edu/2006/01/ontologies/mods3#>
```

```
a) SELECT ?recordID  
  Where  
  {  
    ?recordID mods:records ?item.  
    ?item rdf:type ?type.
```

```

        FILTER(?type = mods:Text)
    }
b) SELECT ?recordID
   Where
   {
       ?recordID mods:records ?item.
       ?item rdf:type ?type.
       FILTER(?type = mods:NotatedMusic)
   }
c) SELECT ?recordID
   Where
   {
       ?recordID mods:records ?item.
       ?item rdf:type ?type.
       FILTER(?type = mods:StillImage)
   }

```

SelectivityEstimation: *Return translated title of all text type records in the data store.*

```

PREFIX rdf:<http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX mods:<http://simile.mit.edu/2006/01/ontologies/mods3#>

```

```

SELECT ?translatedTitle

```

```

Where
{
    ?recordID mods:records ?item.
    ?item mods:title ?title.
    ?title rdf:type mods:TranslatedTitle.
    ?title mods:value ?translatedTitle
}

```

IrregularAccessPatterns: *Select all different properties that has text type item as its domain or range.*

```

PREFIX rdf:<http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX mods:<http://simile.mit.edu/2006/01/ontologies/mods3#>

```

```

SELECT DISTINCT ?item ?property

```

```

Where
{
    {
        ?item rdf:type mods:Text.
        ?item ?property ?object
    }
}

```

```
UNION
{
    ?item rdf:type mods:Text.
    ?subject ?property ?item
}
}
```