

Exercises for the book

Semantic Web Databases

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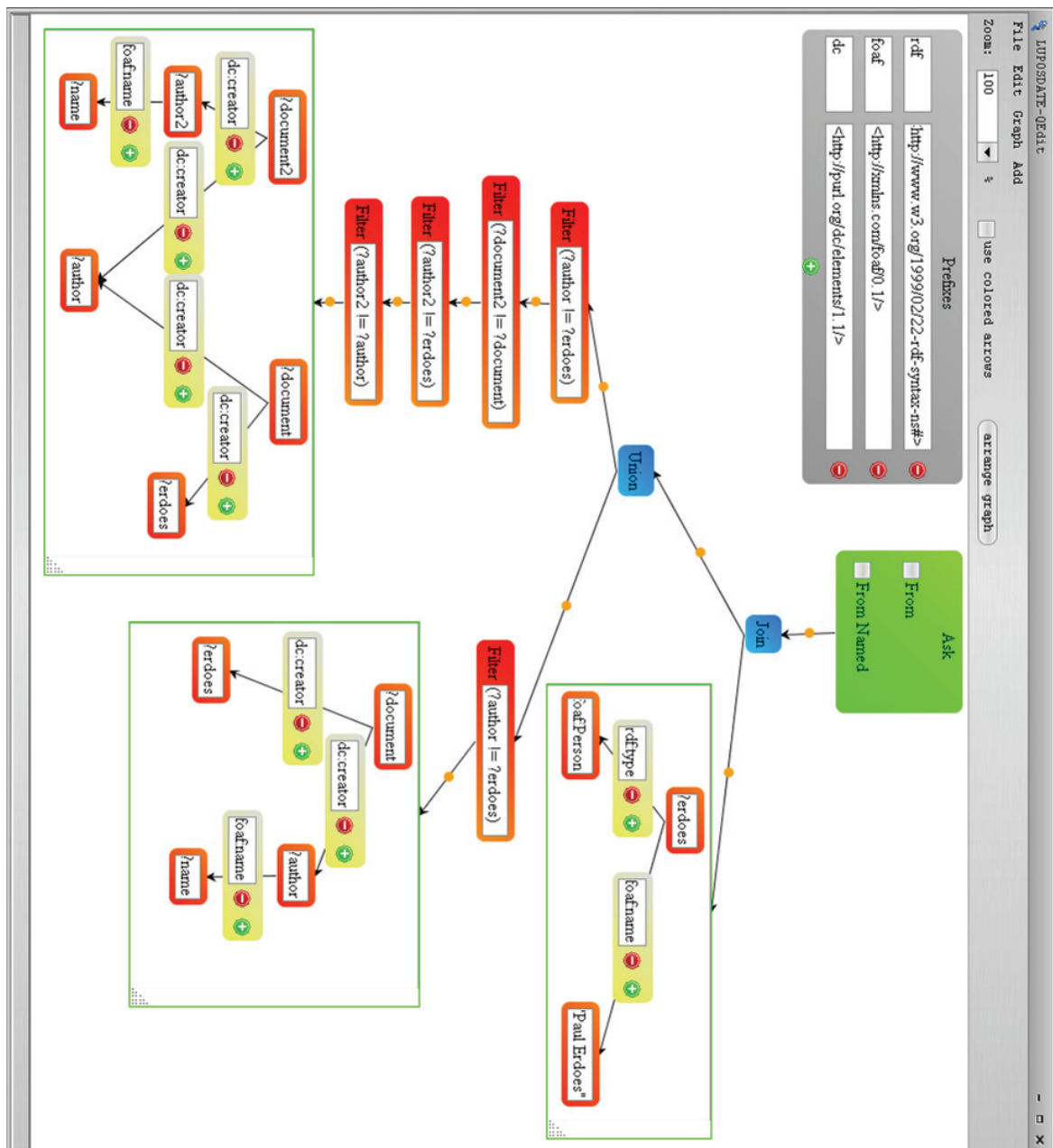
Chapter 10 – Visual Query Languages

1. Condense the data of Exercise 2 in Chapter 2 according to the 4 steps presented in this chapter.
2. Transform the following textual SPARQL query into its visual representation.

```
PREFIX rdf:      <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX rdfs:    <http://www.w3.org/2000/01/rdf-schema#>
PREFIX foaf:    <http://xmlns.com/foaf/0.1/>
PREFIX dc:      <http://purl.org/dc/elements/1.1/>
PREFIX dcterms: <http://purl.org/dc/terms/>
```

```
SELECT ?yr ?name ?document
WHERE {
  ?class rdfs:subClassOf foaf:Document .
  ?document rdf:type ?class .
  ?document dcterms:issued ?yr .
  ?document dc:creator ?author .
  ?author foaf:name ?name
  OPTIONAL {
    ?class2 rdfs:subClassOf foaf:Document .
    ?document2 rdf:type ?class2 .
    ?document2 dcterms:issued ?yr2 .
    ?document2 dc:creator ?author2 .
    FILTER (?author=?author2 && ?yr2<?yr)
  } FILTER (!bound(?author2))
}
```

3. Determine the textual SPARQL query from the following visual representation.



4. Determine the suggestion-computing queries for the following visual SPARQL query with the marked node on which the mouse pointer is.

Prefixes

bench	<http://localhost/vocabulary/bench/>	⊖
rdf	http://www.w3.org/1999/02/22-rdf-syntax-ns#>	⊖
dc	<http://purl.org/dc/elements/1.1/>	⊖
swrc	<http://swrc.ontoware.org/ontology#>	⊖
dcterms	<http://purl.org/dcterms/>	⊕

Select

No Distinct ▾	☒ Projection	?improc	⊖	?author	⊖	?title	⊖	?page	⊖	?yr	⊖	?abstract	⊖	⊕
☐ From														
☐ From Named														
☒ Order By	ASC ▾	?yr	⊖	⊕										
☐ Limit	-1	☐ Offset	0											

Optional

left

right

