## Foundations of Semantic Web Technologies

Tutorial 9

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**Exercise 9.1.** Compute the solutions to the expressions from Exercise 8.2 with respect to the knowledge base from Exercise 8.1 step by step.

**Exercise 9.2.** This exercise focuses on the use of modifiers in SPARQL. Consider the following RDF document:

Which result would each of the following SPARQL queries return for this RDF input?

```
(a) SELECT ?s ?v
WHERE { ?s <http://example.org/value> ?v }
ORDER BY ?v
(b) SELECT ?s
WHERE { ?s <http://example.org/value> ?v }
ORDER BY ?v
(c) SELECT ?s
WHERE { ?s <http://example.org/value> ?v }
ORDER BY DESC(?v) LIMIT 2
(d) SELECT DISTINCT ?s
WHERE { ?s <http://example.org/value> ?v }
ORDER BY ?v
```

Which result would you expect the last query to return when LIMIT 1 is added?