

Example 1c In which years have database books been published?

Query in SPARQL over RDF-Graph

```
SELECT ?year WHERE {
  ?book type Book .
  ?book title "DBMS" .
  ?book issued ?year
}
```

Query in SQL over Vertical Partitioning

```
SELECT Is.object AS year FROM Type Ty,
       Title Ti,
       Issued Is
WHERE
  Ty.object = 'Book' AND
  Ti.object = 'DBMS' AND
  Ty.subject = Ti.subject AND Ti.subject = Is.subject
```

Example 2: In which predicates do persons appear as objects?

Query in SPARQL over RDF-Graph

```
SELECT ?predicate WHERE {
  ?person rdf:type foaf:Person .
  ?subject ?predicate ?person
}
```

Query in SQL over Triple-Table

```
SELECT T2.predicate FROM Triples T1,
       Triples T2
WHERE
  T1.predicate='Type' AND T1.object='Person' AND
  T2.object = T1.subject
```

Property-Table (single class) and Vertical Partitioning are going to fail.