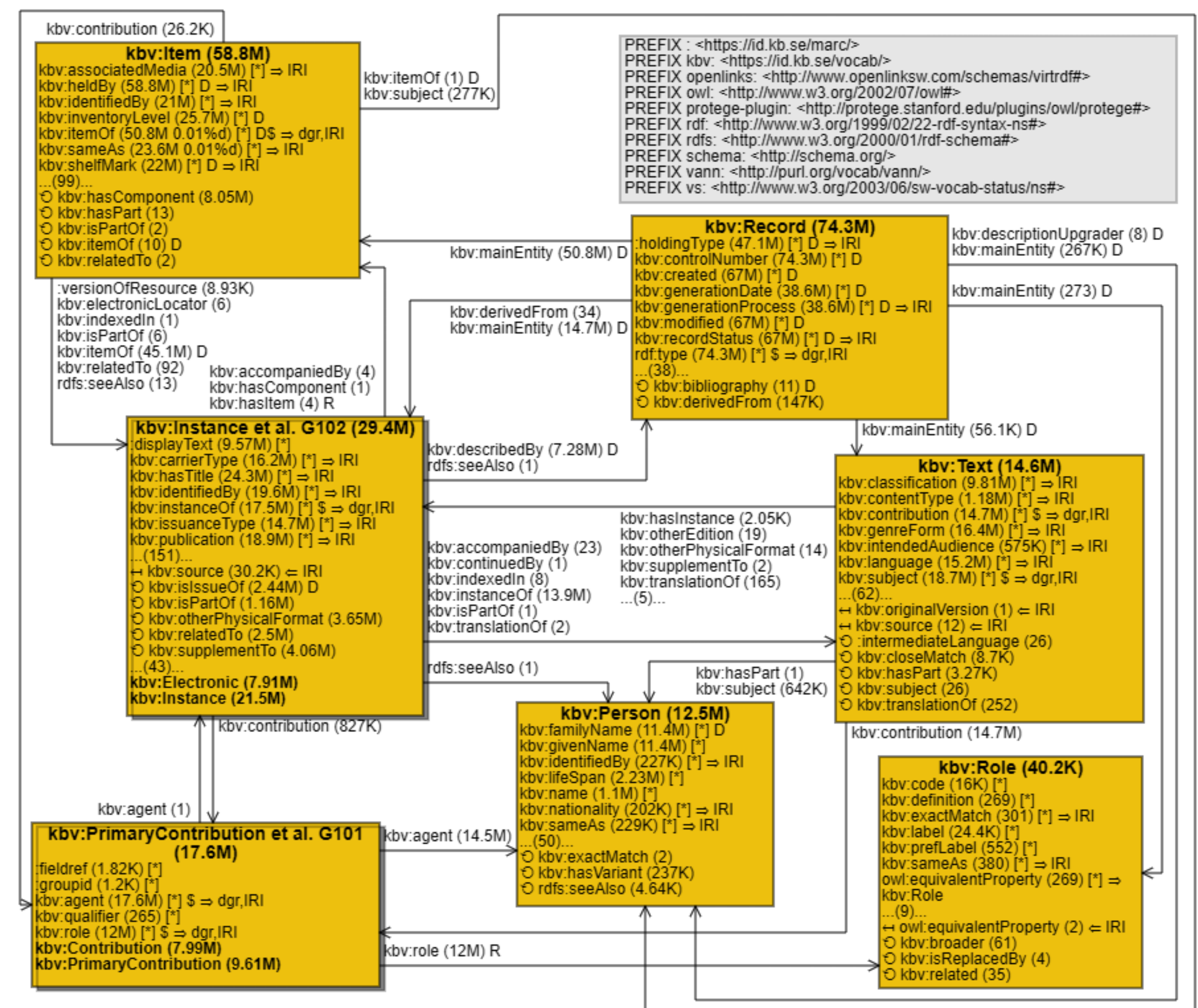


- ***Extract schema*** from a data endpoint, store in the tools' database
- ***Visualize the schema*** (in plain or ***summary*** form) or its fragment as a UML style diagram
- Small schemas give ***nice diagrams***
- Larger data schemas: schema diagrams unreadable or uncomputable
- How to select ***relevant fragments***?



libris.kb.se: a fragment related with *kbv:Person* class

[1] L.Lāce et.al. Visual Presentation and Summarization of Linked Data Schemas. In: Proc. of KGSWC 2024, LNCS, Vol.15459



- Direct (paths from the root only)
- Heuristic (at each moment add the next most relevant node, may be order-sensitive wrt. tie breaking)
- Personalized PageRank (computed over entire graph)
- Stepwise Personalized PageRank (personalized PageRank over fragment and candidate nodes in each iteration)

- Source class connections
- Source and target class connections
- Source and target class size

Extra constraints, systematic evaluation

- For medium-sized schemas, available in **Viziquer** schema diagram environment: ***within the diagram configuration tool.***
Integrated in ViziQuer.
<https://github.com/LUMII-Syslab/viziquer-tools>
- For large schemas (e.g., DBPedia): compute the fragment ***directly from the data set*** (SPARQL Endpoint) then import the fragment into the visual tool as a ***separate visual environment.***

<https://github.com/LUMII-Syslab/kg-fragment-extractor>

Visual schema and query resources: <https://viziquer.lumii.lv/>