SPARQL

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1 Exercises – DBPedia

Use the `http://dbpedia-live.openlinksw.com/sparql/` endpoint for posing queries. For finding suitable resources, please use either the DBPedia ontology in WebProtégé `http://webprotege.stanford.edu`, or the browser available at `http://live.dbpedia.org/page/Czech_Republic`.

Ex. 1 — Find all types (classes) of a Gray wolf in DBPedia.

Ex. 2 — Find labels of Gray wolf in czech, english and german languages.

Ex. 3 — Find the name for the Czech Republic in all official languages of EU member states.

Ex. 4 — How many czech writers died in the Czech Republic according to DBPedia ?

Ex. 5 — How many world countries have more than one official language ?

Ex. 6 — Find five countries with the highest population.

Ex. 7 — Find all parliamentary republics optionally together with their czech name (if exist)

Ex. 8 — Find all female ancestors of the Prince Charles.

2 Corese

Corese is one of the reference implementations of SPARQL 1.1.

1. Download and install it from `http://wimmics.inria.fr/node/33`.

2. Run it using `java -jar corese-3.1.1.jar`.

3. Press the + sign to create a new query

Ex. 9 — Using Corese, try to "Find all female ancestors of the Prince Charles" (the same query as in the previous section).

3 Relevant References

- Corese `http://wimmics.inria.fr/node/33`

- WebProtege `http://webprotege.stanford.edu`

- DBPedia SPARQL endpoint `http://dbpedia-live.openlinksw.com/sparql`

- Europeana SPARQL endpoint `http://europeana.ontotext.com/sparql`

- OSW ontology SPARQL endpoint `http://onto.fel.cvut.cz/openrdf-sesame/repositories/osw-2014-summer`

- SPARQL endpoint list `http://www.w3.org/wiki/SparqlEndpoints`