SPARQL

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1 Exercises – DBPedia

Use the `http://dbpedia.org/sparql` endpoint for posing queries. For finding suitable resources, please use either the DBPedia ontology `http://mappings.dbpedia.org/server/ontology/classes/`, or the browser available at `http://live.dbpedia.org/page/Czech_Republic`.

Ex. 1 — Find all types (classes), the resource describing Prague belongs to.

Ex. 2 — Find labels of Prague in english and german.

Ex. 3 — List all EU members (countries) and show what is the relative strength of a voter in different EU countries (i.e. the ratio of total population to the number of seats in the EU parliament). Take the Czech Republic (`http://dbpedia.org/resource/Czech_Republic`) as an example to explore the properties. Note that not all information is available for all countries.

Ex. 4 — How many actors died in another country than they got born according to DBPedia. Group by countries where the actors were born.

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

Ex. 6 — Find ten countries with the highest population and show their gross domestic product per capita.

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

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

2 Relevant References

- DBPedia SPARQL endpoint `http://dbpedia.org/sparql`

- OSW ontology SPARQL endpoint `http://onto.fel.cvut.cz:7300/repositories/osw2017-ontology`

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