## EXERCISES ON SPARQL

Use DBpedia SPARQL endpoint to solve the exercises : http://dbpedia.org/sparql

## EXERCISE 1

Find 50 example concepts in the DBpedia dataset.

## EXERCISE 2

Find the resource of Madonna (the singer). Tip: don't forget to use the language tag in your query: "Madonna"@en

## EXERCISE 3

Describe Madonna using one of the URIs retrieved by the previous query.

## EXERCISE 4

The behavior of a DESCRIBE query is up to the server. Create a query to retrieve all properties around Madonna. In other words: all predicates and objects where she is the subject, and all predicated and subjects where she is the object.

## EXERCISE 5

List the people and their names who are born in Brussels.

## EXERCISE 6

Are there people who were born in Brussels and died in Paris? (use an ASK query)

## EXERCISE 7

Find 20 people (URI and place of death) who were born in Ghent, but died elsewhere.

## EXERCISE 8

Give a list of people and their names. You will see duplicate people, which aggregate can you use to return just one of the names?

## EXERCISE 9

Give a list of countries and their French ('FR') labels.

## EXERCISE 10

Choose two cities, and make everyone born in one city know all persons born in the other and vice versa. (use a CONSTRUCT query)

## RESOURCES

- http://dbpedia.org/resource/Madonna_(entertainer)
- http://dbpedia.org/ontology/birthPlace
- http://dbpedia.org/resource/Brussels
- http://dbpedia.org/property/name
- http://dbpedia.org/property/deathPlace
- http://dbpedia.org/resource/Paris

- [http://dbpedia.org/resource/Ghent](http://dbpedia.org/resource/Ghent)
- [http://xmlns.com/foaf/0.1/Person](http://xmlns.com/foaf/0.1/Person)
- [http://xmlns.com/foaf/0.1/name](http://xmlns.com/foaf/0.1/name)
- [http://dbpedia.org/property/knows](http://dbpedia.org/property/knows)

- [http://dbpedia.org/resource/Ghent](http://dbpedia.org/resource/Ghent)
- [http://xmlns.com/foaf/0.1/Person](http://xmlns.com/foaf/0.1/Person)
- [http://xmlns.com/foaf/0.1/name](http://xmlns.com/foaf/0.1/name)
- [http://dbpedia.org/property/knows](http://dbpedia.org/property/knows)