

## Master Big Data Management and Analytics

## Training Linked Open Data with SPARQL

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**Linked Open Data with SPARQL**

**Answers**

Fill the names of the participants:

* Name, Family name, email
* Etc.

**Part C: Optional practice (homework)**

1. **Creating SPARQL queries**
   1. If not yet finished, create the missing queries of the Part B.

In the part B.2, you have 5 exercises to create the SPARQL queries but only 3 are mandatories. If you didn’t finished all the exercises of this part, they should be realized as the optional exercises.

<SPARQL query 1.x> ….

<SPARQL query 1.y> ….

* 1. Create the query to find the actor of movies who were produced by Indian companies during the period between 1960 and 1990.

In the results, you should display the name of the actor, the movie name, the date of the release, and the name of the director, the company name and the location of the company. You should distinct the results by movies and order them by ascending date.

<SPARQL query 1.b> ….

1. **Designing basic ontologies**

When the previous query is realised, you have to design the schema of the ontologies used to find this information in the knowledge base. Concepts and properties should be represented as a semantic graph.

<add the graph schema for the ontologies>

1. **Build a federated query**

By using the federated mechanism of SPARQL, you should create a query that permits to collected knowledge from two different SPARQL endpoints, for example:

* <http://dbpedia.org/snorql/>
* http://lod2.openlinksw.com/sparql

First, you have to find a common concept between the two knowledge base.

Then, you have to find instances of this concepts from both repositories.

<add the Federated SPARQL query>