

CSCI8380 Advanced Topics in Information Systems

Spring 2012

Project 2: Storing and Querying YAGO

Due: 2:30 PM, February 16th (class-time)

Please download and load YAGO 2 core ontology to Jena storage engine. Then, formulate a mechanism (using Jena Java API) to process semantic association queries on YAGO 2 core data set:

- A semantic association query involves 2 end-points (e.g. “Albert Einstein” and “Alfred Kleiner”).
- A result contains a set of associations (e.g. “Albert Einstein” “hasAcademicAdvisor” “Alfred Kleiner”).
- Implement Sparql querying to discover associations involving up to 3 hops (e.g. “Albert Einstein” P1 O2 P3 “Alfred Kleiner”).
- You can limit the max. number of associations to be displayed to 10.

Programming language/environment: YAGO 2 core and converter (<http://www.mpi-inf.mpg.de/yago-naga/yago/>); Jena (<http://incubator.apache.org/jena/>)

What to submit: Please post at least 3 semantic association queries, query results and a brief description at your course web page. The description can contain some comments, and experiences of using YAGO 2 and Jena and other specifications you want to make.

How to submit: Once you post the deliverables at your course web page there is nothing else to be done.