Managing Data & Databases

Session 1
Reconstructing course outline

Mahmood S. Zargar, PhD Candidate

About me

mszargar

mszargar

mahmood@gmail.com

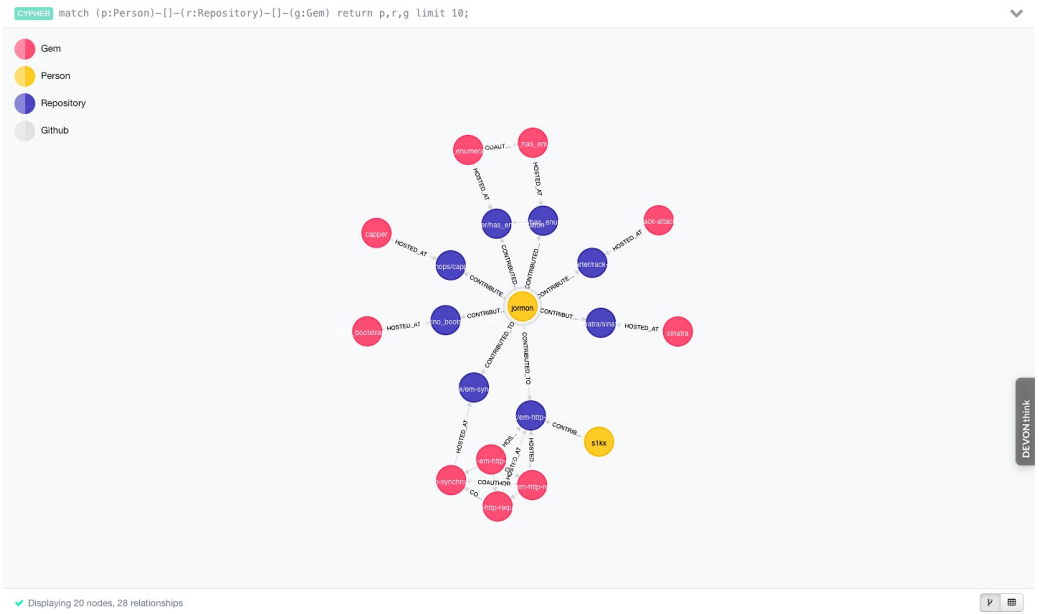
Yes, I'm that old!

ofjoynpain

ofjoy

retrography

My Projects - Open Source



My Projects - Healthcare

Why am I here?

It all started when I was very young…

I used to gather and classify all the junk around the house.

My parents believed I would end up in a recycling service!

It turns out recycling information is quite in-demand as a skill...

The course
Main objectives

- Learn to deal with data and relational databases (SQL)
- Have an overview of the latest technical evolutions in data storage and processing
- Gain a good general understanding of the most notable issues in personal and corporate data management

The course
Learning modules

- Databases (technical)
  - SQL, NoSQL, GraphDBs, etc.
- Data & Business
  - Business Models, Cloud Services, Data-driven Business, Security
- Data & Society
  - Big Data, Privacy, Open Data
- The Project

The course
Grading "ingredients"

- Final project (team) - 40%
- 2 Quizzes - 30% (15% each)
  - Only cover non-technical material
- 2 Exercises (individual) - 20% (10% each)
  - Only cover technical material
- Attendance and active participation - 10%

The course
Reading assignments

- Main references:
  - Data Management by Richard Watson, 6th Edition
  - The Data Revolution by Rob Kitchin

- Reading terminology:
  - **Read:** Well, read it carefully
  - **Skim:** You need to read it, but you can skip unimportant or repetitive parts
  - **Have a look:** You need to know the overall story and the major points for active class discussion
  - **Check out:** You need to know what is covered in the text and what you can get out of it

The exercise
Why?

- You gain a practical understanding of what you will be dealing with
- I can assess your learning needs
- I can test my database infrastructure and make sure it works for the class

The exercise
MySQLWorkbench

http://dev.mysql.com/downloads/workbench/