Exam Review Outline
IN705 Databases Three

Theory Exam

The theory exam will take place during the first session of the final week of the semester. Access to notes, the Internet, and other resources is premitted. The exam is mostly going to be about a big-picture understanding of the topics. You won't be asked to write code, but you may see some code and be asked questions about it.

Topics that may be included on the exam include:

- Model-View-Controller architecture, with special attention to the role of models;

- The role of an integration (API) server in a database application stack;

- REST API's, (think in particular how HTTP verbs are mapped to CRUD operations);

- Types of databases (Relational, Document-Based, Key-Value stores)

    - Be able to explain how data is represented in each

    - Compare their relative strengths and weaknesses

    - Describe how a simple data model could be stored in each type of database - how would you represnt 1-to-many or many-to-many

- Be able to explain, in a couple of sentences of plain English, what MapReduce is.