

Curriculum for Advanced database technology, spring 2004

The course book

- G UW = Database Systems: The Complete Book by Hector Garcia-Molina, Jeff Ullman, and Jennifer Widom, 2002.
 - Section 11.1-11.7.3, 12, 13.0-13.4, 14.0-14.1, 15.0-15.8, 16.2-16.7, 17.0-17.1, 17.2.4, 17.2.5, 17.4, 18.0-18.8, 19.3, 20.6.
 - Note that examples are not curriculum, meaning that the exam will not require knowledge of any particular example. (On the other hand it may be useful to read some of the examples to help you understand the text.)

Supplementary literature

All supplementary material, except [CLRS01], is available at the course home page (<http://www.itu.dk/people/anna/ADBT04/>).

- [AgrawalSrikant94] = Rakesh Agrawal, Ramakrishnan Srikant. Fast Algorithms for Mining Association Rules. Proceeding of the 20th International Conference on Very Large Data Bases, 1994. The whole paper, except section 3.3.
- [Arge01] = Lars Arge. External memory data structures. Section 1, 2.1 (persistent B-trees), 3-4 (static versions only), 4.1, 9.
- [BrinPage98] = Sergey Brin and Lawrence Page. The Anatomy of a Large-Scale Hypertextual Web Search Engine. Section 1, 2, 4.2.
- [CLRS01] = Cormen, Leiserson, Rivest, and Stein. Introduction to Algorithms, 2nd edition. Page 405-409. (Or [CLR90] = Cormen, Leiserson, and Rivest. Introduction to Algorithms, Page 356-360.)
- [KarkkainenRao03] = Juha KarkkainenRao and S. Srinivasa Rao. Full-text Indexes in External Memory. Section 7.1-7.4.
- [MaheshwariZeh03] = Anil Maheshwari and Norbert Zeh. A Survey of Techniques for Designing I/O-Efficient Algorithms. Section 3.1-3.2.
- [Sanders03] = Peter Sanders. Memory Hierarchies - Models and Lower bounds. Section 1.3-1.5.
- [Pagh03] = Rasmus Pagh. Basic External Memory Data Structures. Section 1, 3.0-3.2, 4.
- [Ullman00] = Jeff Ullman. Association rules and frequent item sets. Note for CS345, Stanford University, 2000. The entire note.

Other material

- Slides from the lectures.
Available at <http://www.itu.dk/people/anna/ADBT04/> .