

Exercises and hand-ins

Advanced database technology

February 6, 2003

There will be 8-11 mandatory hand-ins during the course. Assignments are given in connection with the lectures (and announced on the home page) and are due before the lecture in the following week. Every assignment is graded on a scale from 0 to 10, and students must achieve 60% of the maximum possible point sum to qualify for the exam. Late hand-ins will under normal circumstances receive 0 points. It is allowed to discuss assignments with other students, but the solutions must be prepared individually. Hand-ins may be in Danish or English, and are to be handed in on paper - either directly to one of the lecturers or in the mail boxes in the information office.

Exercises 1 (below), 3.1.2 c), 3.4.6 b) and 5.3.4 b) are to be handed in at the latest February 13 at 10.00 AM. The correct answer is not enough to get full points – also describe how you came up with the answer.

You should also try to solve the rest of the exercises before February 13, since they will be discussed at the end of the lecture that day.

In the following we refer to exercises from the course book, e.g., 3.1.2 is the second exercise in section 3.1.

Exercises

1. Give a short description of your background relevant to this course, e.g., courses in databases and algorithms and data structures. Also state how much you knew or recognized from the material in the Recap-part of the lecture Feb. 6 (see slides if you were not at the lecture). **To be handed in.**
2. 3.1.2 on page 65. **Part c is to be handed in.**
3. 3.4.6 on page 89. **Part b is to be handed in.**
4. 3.6.1 a-c on page 117. Only *i* and *ii* (not *iii*, *iv*).
5. 5.2.8 on page 213 (for the operators mentioned in the first lecture). Consider how monotonicity could be used when maintaining the results of relational expressions during updates of the underlying relations.
6. 5.3.4 b+g+h on page 220–221. **Part b is to be handed in.**
7. 5.3.5 b on page 221.