

## Class exercises on queries

The following questions will be solved in class, as illustrations of techniques for constructing queries.

1. **Basic queries:** "Gruppövningar:Relationeralgebra/kakyl" from the Spring 1996 offering of the course. Follow this hyperlink:  
<http://www.cs.umu.se/kurser/TDBC86/V96/ovning2.html>.  
(These exercises are more fundamental than those of problem 7.18 of the text. They should be solved for each of the relational algebra and the tuple relational calculus.)
2. **More complex queries:** problem 7.18 on page 235 of the text. (Some of these problems require the use of more advanced query operators, such as aggregation and averaging. Do only those which may be solved using the basic operations covered in class, but make note of those which cannot be so solved, and explain why.)