Introduction to Databases

Homework 3

Handed out:Monday, November 1, 2004Due back:Wednesday, November 17, 2004 (at the start of class)Notes:To be done individuallyThis is the last homework – Homework 4 has been supplanted in favor of
Project C

- Textbook exercise 5.2.1b-e,g,i,k Your final answer should be formal functional notation. You might find it helpful to work out expression trees first, however.
- 2. Textbook exercise 5.2.8
- 3. Textbook exercise 5.2.9
- 4. Textbook exercise 5.3.3
- 5. Textbook exercise 5.3.4c,f,g
- 6. Textbook exercise 5.4.1h,j,l
- 7. Textbook exercise 5.4.2d,e
- 8. Textbook exercise 5.5.1b,c
- 9. Textbook exercise 5.5.4

Extra Credit: What is the relational **calculus**? How does it differ from the relational algebra? What is it good for? Who uses it? Notice that there several possible answers.

Extra Credit: Write a one page essay giving your opinion of the relationship of relational algebra, relational calculus, predicate logic, propositional logic, and set theory.