Introduction to Databases

Homework 3

Handed out: Wednesday, November 14, 2007
Due back: Friday, November 30, 2007 (at the start of class)
Notes: To be done individually

1. 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: A Distributed Hash Table (DHT) is a kind of primitive peer-to-peer
distributed database that balances load across all peers. The most widely cited DHT in
academia is Chord. The most widely used DHT in practice is probably Magnet, as
included in the Azureus implementation of BitTorrent. Read about Magnet and Chord
and compare and contrast them.