1. (This is a variation of Exercise 15.13 page 590.)
   Consider query Q1B on page 258.
   (a) Draw the initial query tree for Q1B. (See page 571 for the definition of initial query tree.)
   (b) Show how the query tree is optimized using the algorithm outlined in section 15.7 page 576-7.

2. Exercise 15.14 page 591.