From the textbook, *Fundamentals of Database Systems, Seventh Edition,* by Elmasri and Navathe, do exercises 8.16 a-j, 8.21 a-c and 8.22 a-f. Also answer the queries posed in 8.38 using relational algebra.

Note:

1. Show the resulting intension of each query.

2. Clearly label each query by the exercise number (e.g., 8.16a).

3. You may show all the queries as one single relational algebra expression or as several separate expressions as the book shows in Section 8.5 starting on page 265.

4. Use the relational algebra operations and symbols as shown in Table 8.1 on page 258 and pages 259–261 of your textbook.