COP 4540-U01 Homework 3
Fall 2009

Due date: October 14, 2009 (Wednesday) in Class.

Problems:

1. [Exercise 6.16] Specify the following queries on the database schema shown in Figure 5.5 using the relational operators (relational algebra) discussed in this chapter. Also show the result of each query if applied to the database of Figure 5.6.

(a) Retrieve the names of employees in department 5 who work more than 10 hours per week on the 'ProductX' project.

(b) List the names of employees who have a dependent with the same first name as themselves.

(f) Retrieve the names of employees who do not work on any project.

(g) For each department, retrieve the department name, and the average salary of employees working in that department.

(h) Retrieve the average salary of all female employees.