

CMPS340 Fall 2008
HW #1: Developing Queries in Relational Algebra
Due: 12noon, Wednesday, October 8

Using the COMPANY database (as illustrated in Figure 5.6 of the Elmasri/Navathe textbook), devise solutions, in Relational Algebra, to the following informally-stated queries:

- 1.** Retrieve the first and last names of any employee who is male and has a salary greater than \$45,000.
- 2.** Retrieve the name and birthdate of anyone who is either a female dependent of an employee who works for Department 3 or a dependent (of either sex) of an employee who works for Department 4.
- 3.** Retrieve the last name of any employee who works for a different department than does her/his direct supervisor.
- 4.** Retrieve the last name and birthdate of any employee who is no one's direct supervisor.
- 5.** Retrieve the last name and birthdate of any employee who works on a project that is controlled by a department different from the one for which the employee works.