The purpose of this homework is to give you practice with SQL.

The assignment is to provide SQL queries for problems 1a – 1j, 2a, and 2b of Homework 2. For each problem, include both the query and the system output. You should also include the queries/commands you use to create the tables and populate them with data.

The problems are:

1. Use the animal shelter database to construct the following relations:
   
   (a) All pets adopted by John and their types.
   (b) Names of all cats in the shelter.
   (c) Names of all adopted cats in the shelter.
   (d) Telephone numbers of owners who adopted cats.
   (e) Names of owners who adopted short-hair stray cats.
   (f) Names and telephone numbers of owners whose pets are not fixed yet.
   (g) Names of owners who adopted two or more pets of the same type.
   (h) Print the number of cats that John has adopted.
   (i) Names of owners who adopted both cats and dogs.
   (j) Names of owners who adopted at least one of each type of animal in the shelter.

2. Given the parent(pname,cname) relation, construct queries which return relations for:
   
   (a) grandparent(gpname,gcname)
   (b) greatgrand(ggpname,ggcname)