**ER HOMEWORK**

The Prescriptions-R-X chain of pharmacies has offered to give you and your two  
neighbors a free lifetime supply of medicine if you design its database. Given the rising  
cost of health care, you agree. Here are the requirements.  
Requirements:• Patients are identified by an SSN, and their names, addresses, and ages must be  
recorded.  
• Doctors are identified by an SSN. For each doctor, the name, specialty, and years  
of experience must be recorded.  
• Each pharmaceutical company is identified by name and has a phone number.  
• For each drug, the trade name and formula must be recorded. Each drug is sold bya given pharmaceutical company, and the trade name identifies a drug uniquely  
from among the products of that company. If a pharmaceutical company is  
deleted, you need not keep track of its products any longer.  
• Each pharmacy has a name, address, and phone number.  
• Every patient has a primary physician. Every doctor has at least one patient.  
• Each pharmacy sells several drugs and has a price for each. A drug could be sold  
at several pharmacies, and the price could vary from one pharmacy to another.  
• Doctors prescribe drugs for patients. A doctor could prescribe one or more drugs  
for several patients, and a patient could obtain prescriptions from several doctors.  
Each prescription has a date and a quantity associated with it. You can assume  
that, if a doctor prescribes the same drug for the same patient more than once,  
only the last such prescription needs to be stored.  
• Pharmaceutical companies have long-term contracts with pharmacies. A  
pharmaceutical company can contract with several pharmacies, and a pharmacy  
can contract with several pharmaceutical companies. For each contract, you have  
to store a start date, an end date, and the text of the contract.  
• Pharmacies appoint a supervisor for each contract. There must always be a  
supervisor for each contract, but the contract supervisor can change over the  
lifetime of the contract.