1.Find the Entity types

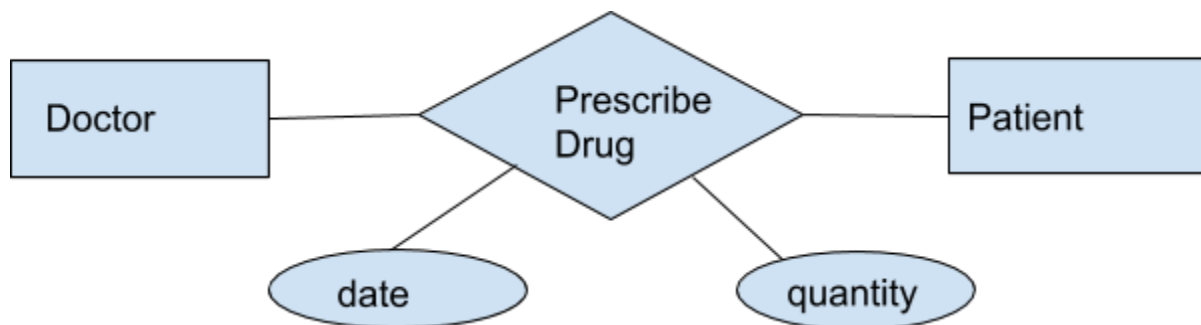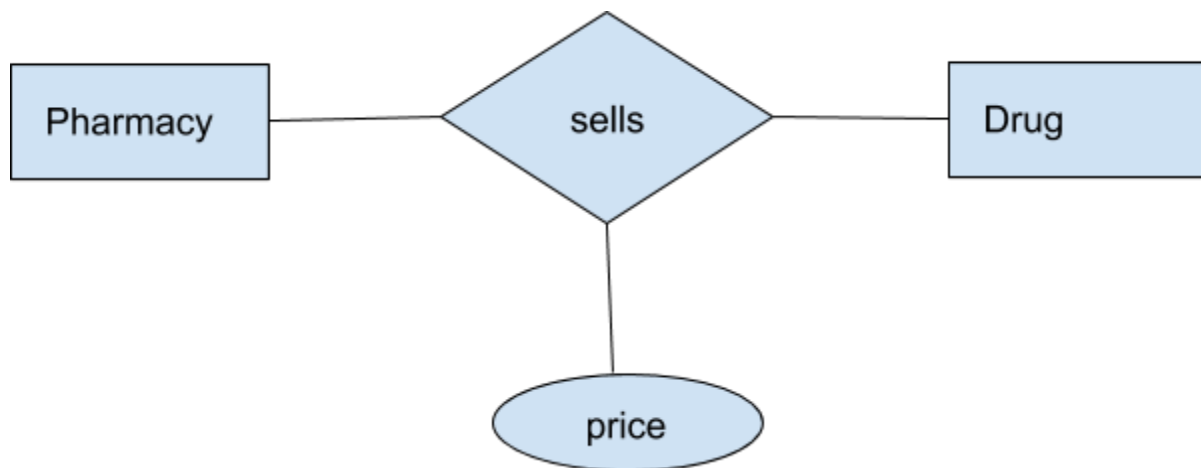   Patients(<u>SSN</u>, names, addresses, age)
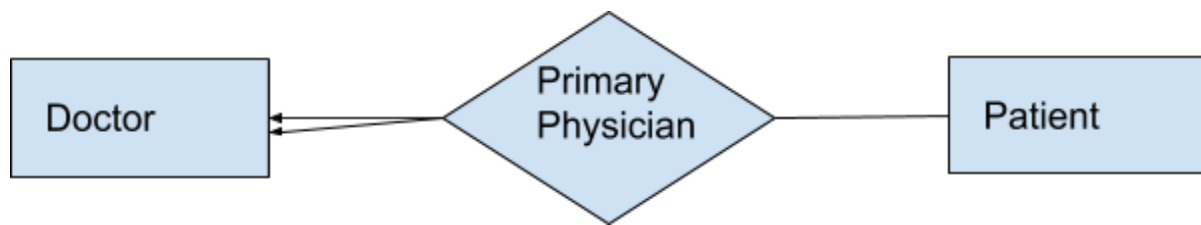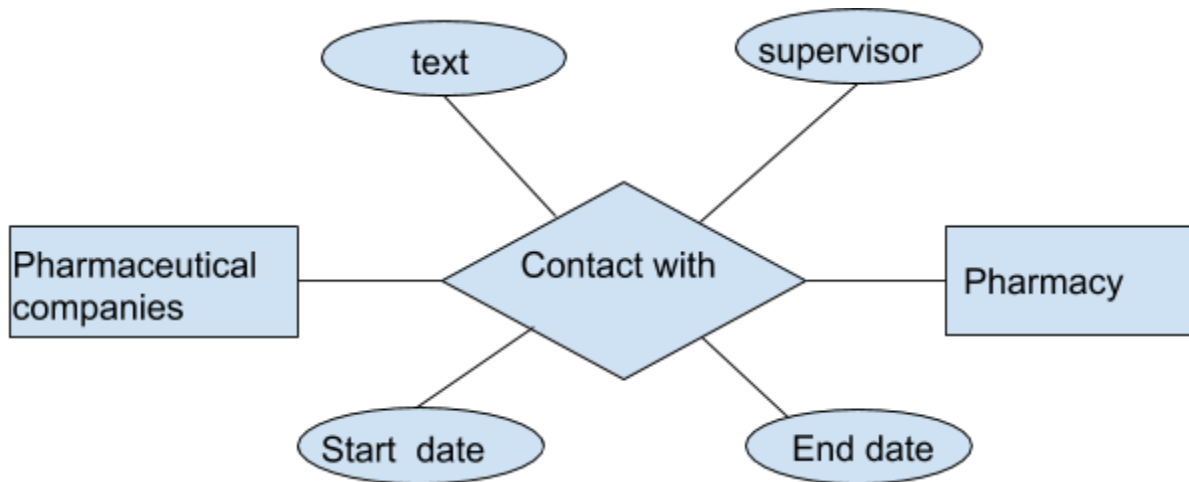   Doctors(<u>SSN</u>, name, experience)
   Pharmaceutical company (name , phone number.)
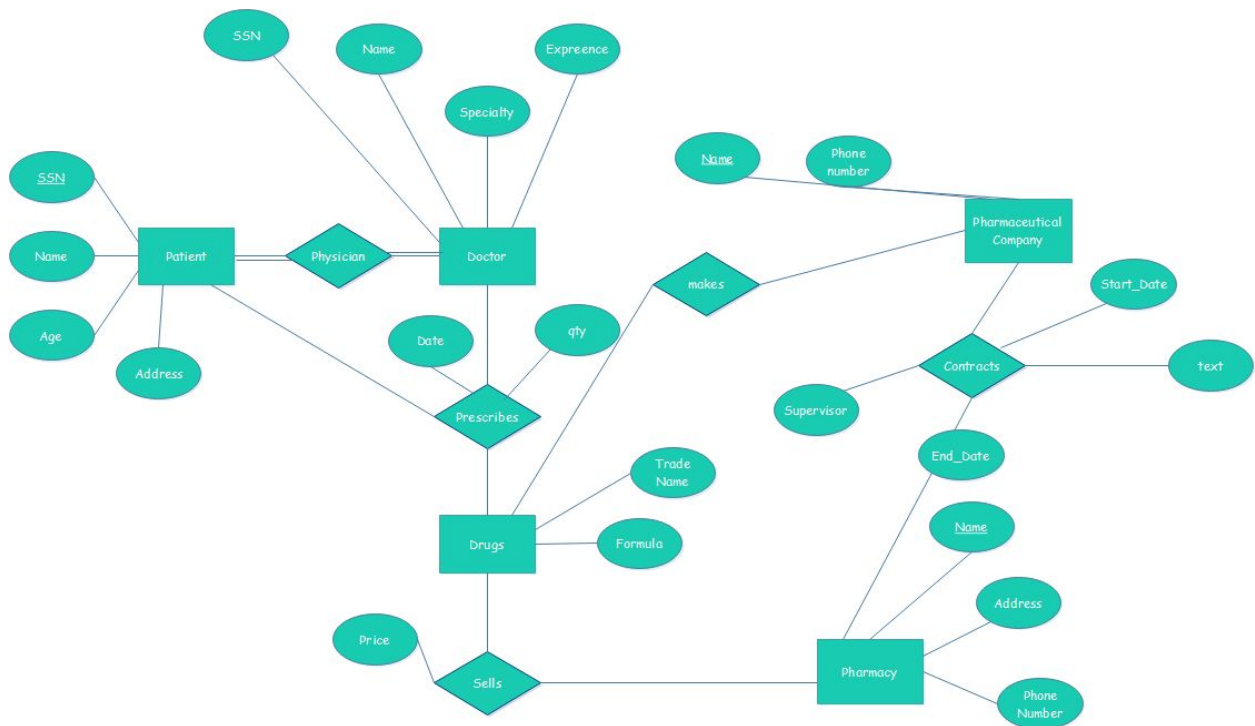   Drug (trade name, formula)
   Pharmacy (name, address, phone number)

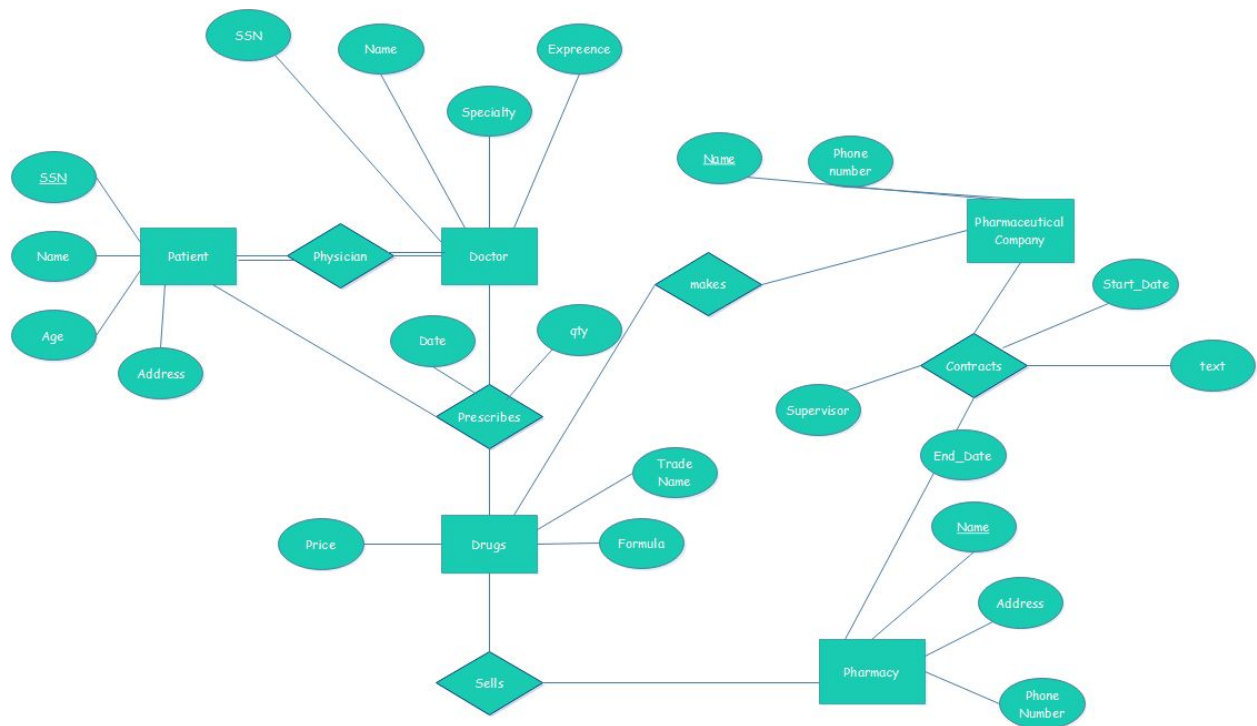2. Draw ER diagram to each relationship separately.

3. Draw a ER diagram that captures the above information.

4. How would your design change if each drug must be sold at a fixed price by all the pharmacies?

5. How would your design change if the design requirements change as follows: If a doctor prescribes the same drug for the same patient more than once, several such prescriptions may have to be stored separately?

Doctor ─── Prescribes ─── Patients

Prescription
- Date
- id
- quantity