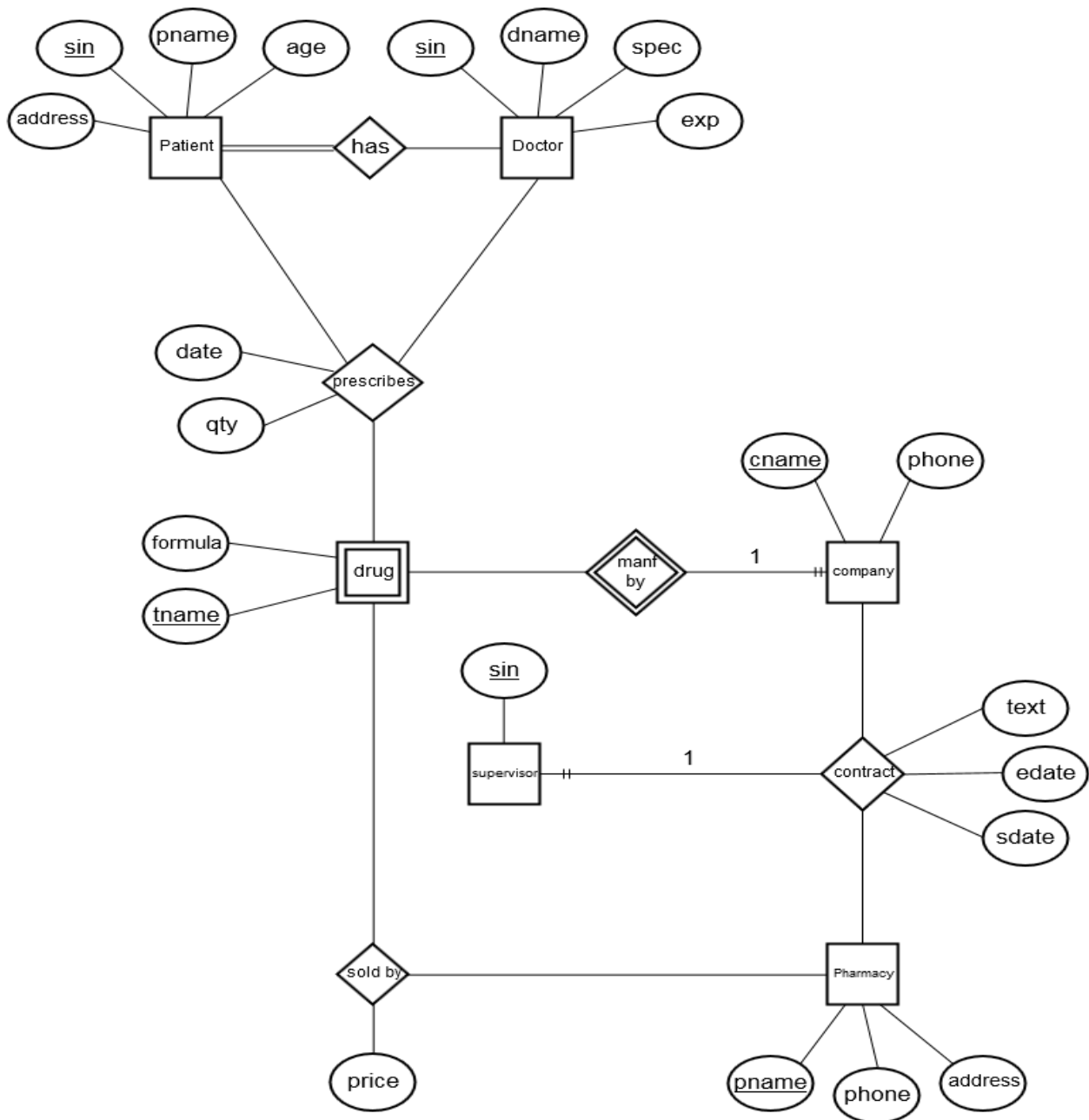# ASSIGNMENT 1

Group 7

Simon Jacques - 27046677
Pierre-Olivier Jourdenais - 26987540
Jonathan Linton - 27388489
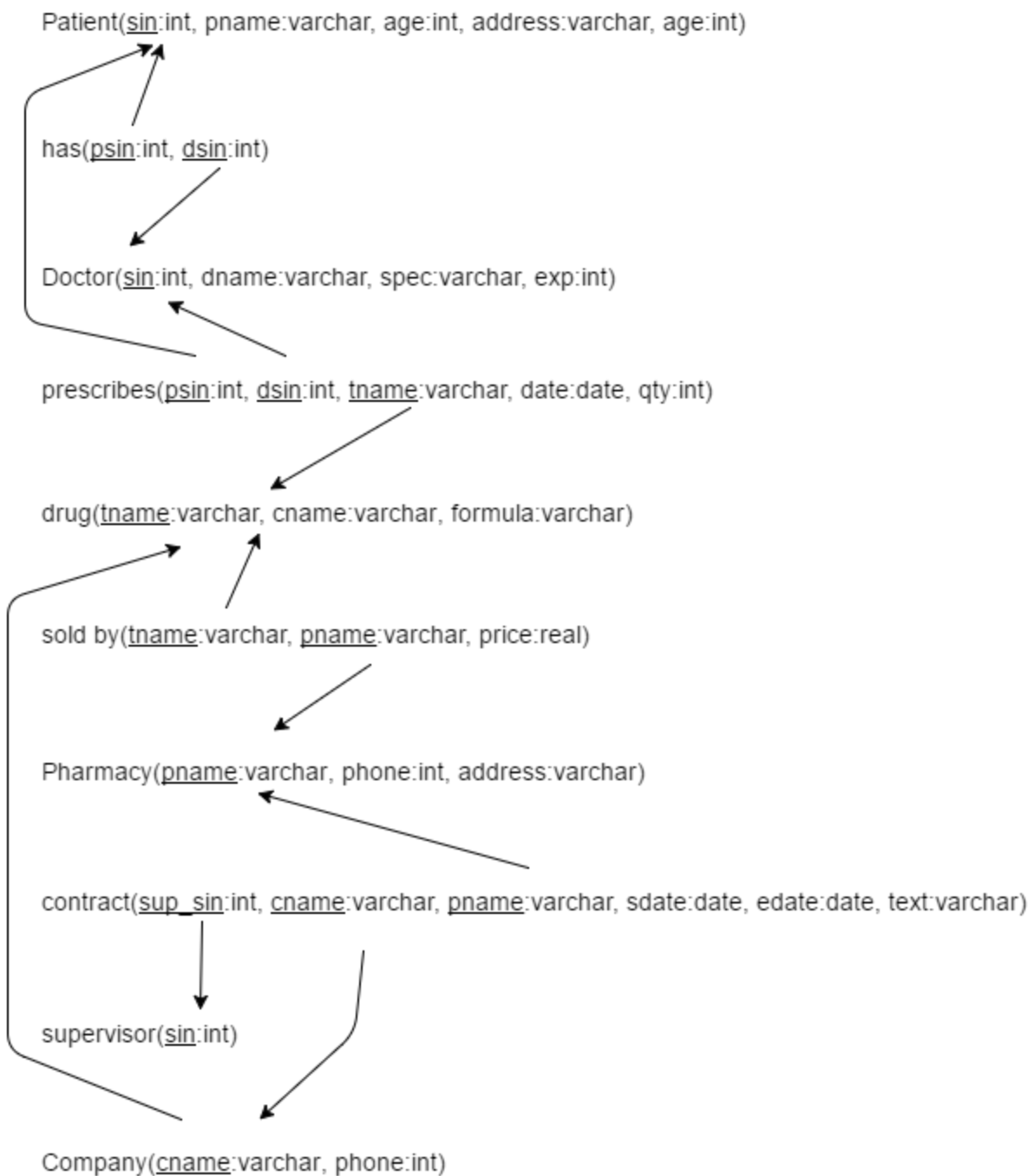**Jonathan Cardone - 27317026**
Clément Hennebelle - 27432917

Question 1 - ER diagram

Question 1 - Relational schema

Patient(<u>sin</u>:int, pname:varchar, age:int, address:varchar, age:int)

has(<u>psin</u>:int, <u>dsin</u>:int)

Doctor(<u>sin</u>:int, dname:varchar, spec:varchar, exp:int)

prescribes(<u>psin</u>:int, <u>dsin</u>:int, <u>tname</u>:varchar, date:date, qty:int)

drug(<u>tname</u>:varchar, cname:varchar, formula:varchar)

sold by(<u>tname</u>:varchar, <u>pname</u>:varchar, price:real)

Pharmacy(<u>pname</u>:varchar, phone:int, address:varchar)

contract(<u>sup_sin</u>:int, <u>cname</u>:varchar, <u>pname</u>:varchar, sdate:date, edate:date, text:varchar)

supervisor(<u>sin</u>:int)

Company(<u>cname</u>:varchar, phone:int)

Question 2 - Queries

1) SELECT * FROM Doctor WHERE specialization = 'Eye Surgery';

2) SELECT pname, dname FROM Patient, Doctor, Clinic, Consults WHERE Patient.pid = Consults.pid AND Doctor.did = Consults.did AND Clinic.cid = Consults.cid AND Clinic.city = 'Laval' AND date = '2016-02-15';

3) SELECT Patient.* FROM Patient, Doctor, Consults WHERE Patient.pid = Consults.pid AND Doctor.did = Consults.did AND dname = 'Dr. Robinson';

4) SELECT Doctor.* FROM Doctor, Works_In, Clinic WHERE Doctor.did = Works_In.did AND Clinic.cid = Works_In.cid AND Clinic.city = 'Laval';

5) SELECT pname FROM Patient, Doctor, Consults WHERE Patient.pid = Consults.pid AND Doctor.did = Consults.did AND illness = 'Heart Disease';