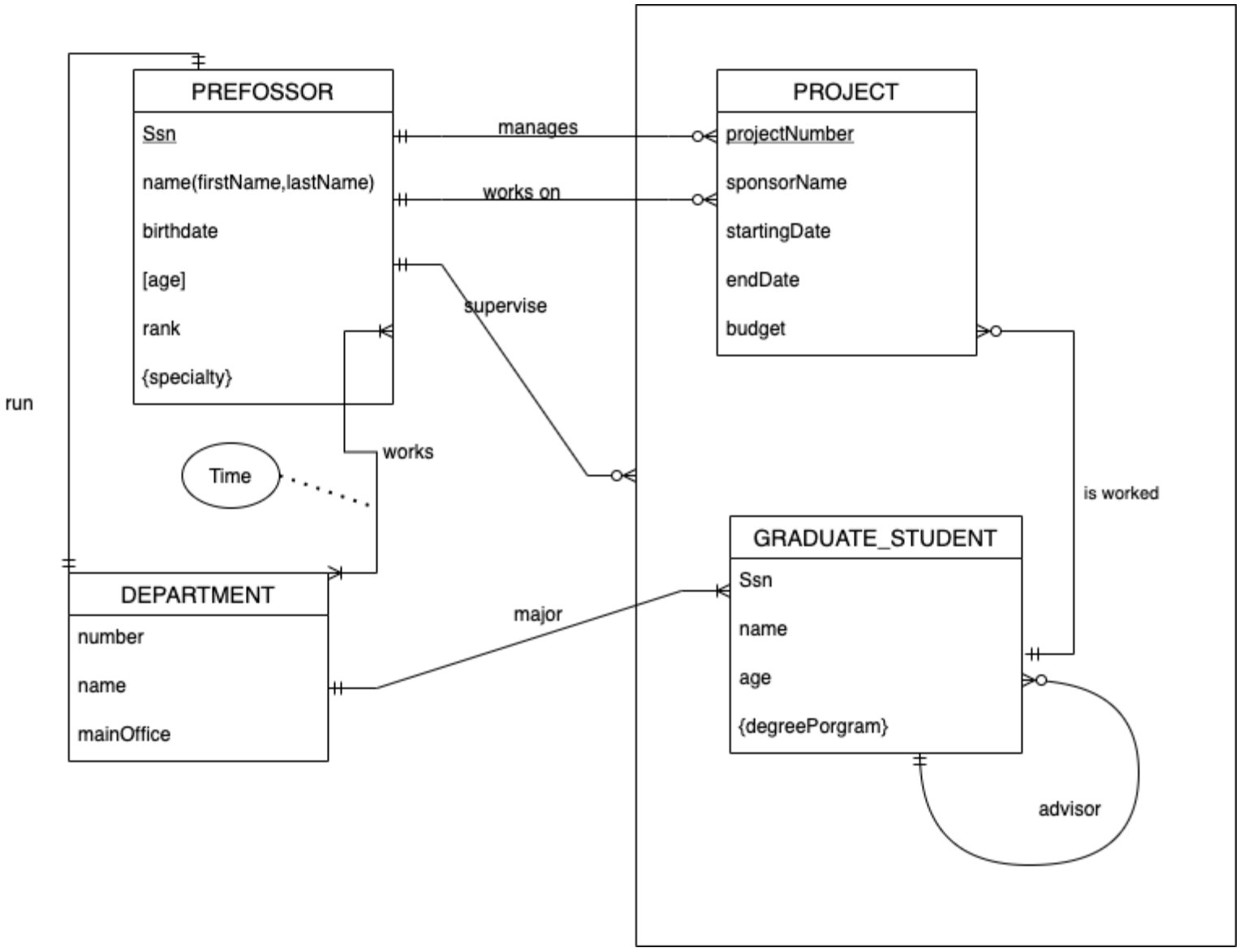
“I hereby swear that the work done on this homework is totally my own; and on my honor, I have neither given nor received any unauthorized and/or inappropriate assistance for this homework. I understand that by the school code, violation of these principles will lead to a zero grade and is subject to harsh discipline issues.

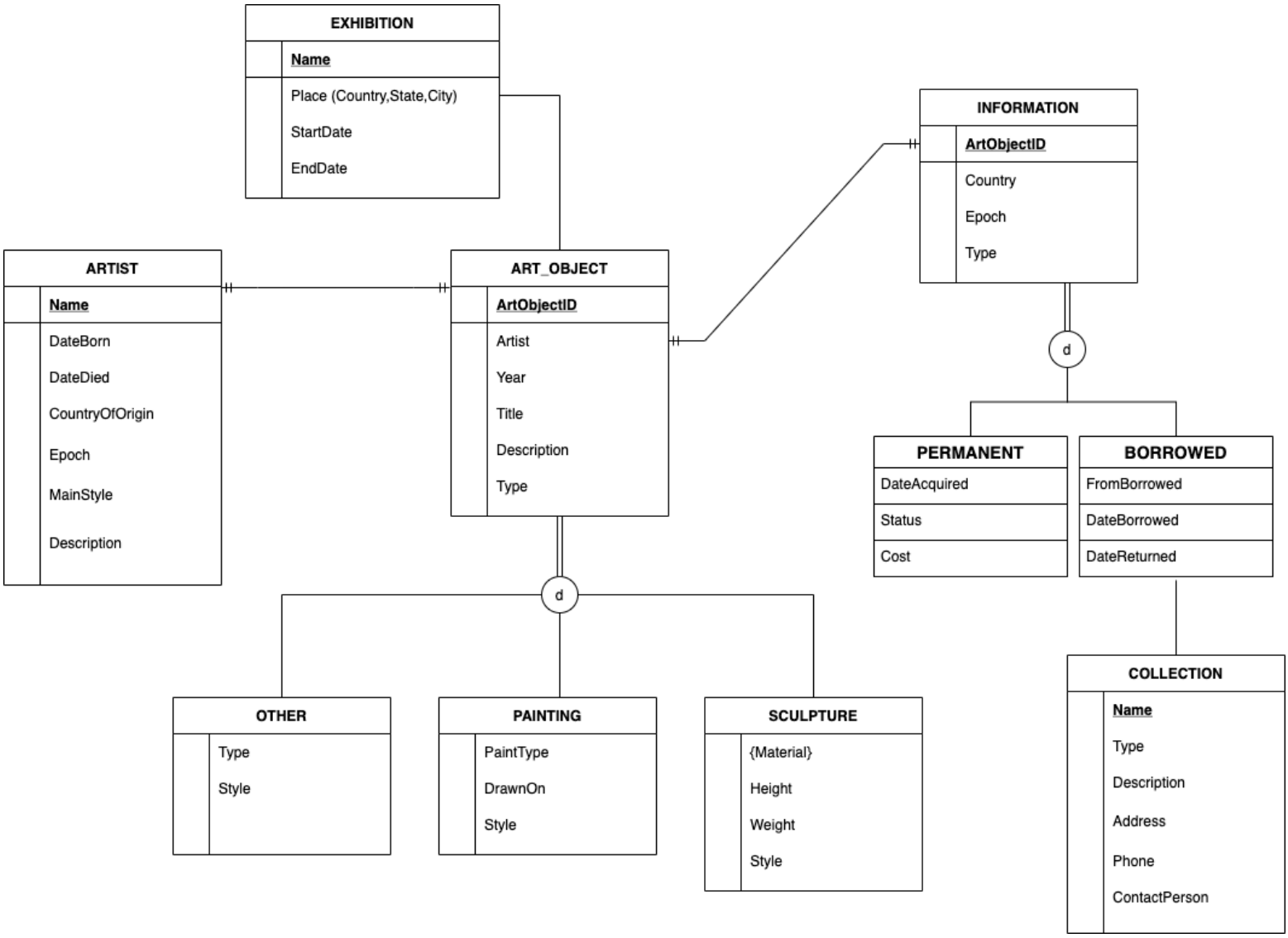
Question 1



Assumptions

-As a supervisor, I drew it in a separate class so that it covers both the project and the student.

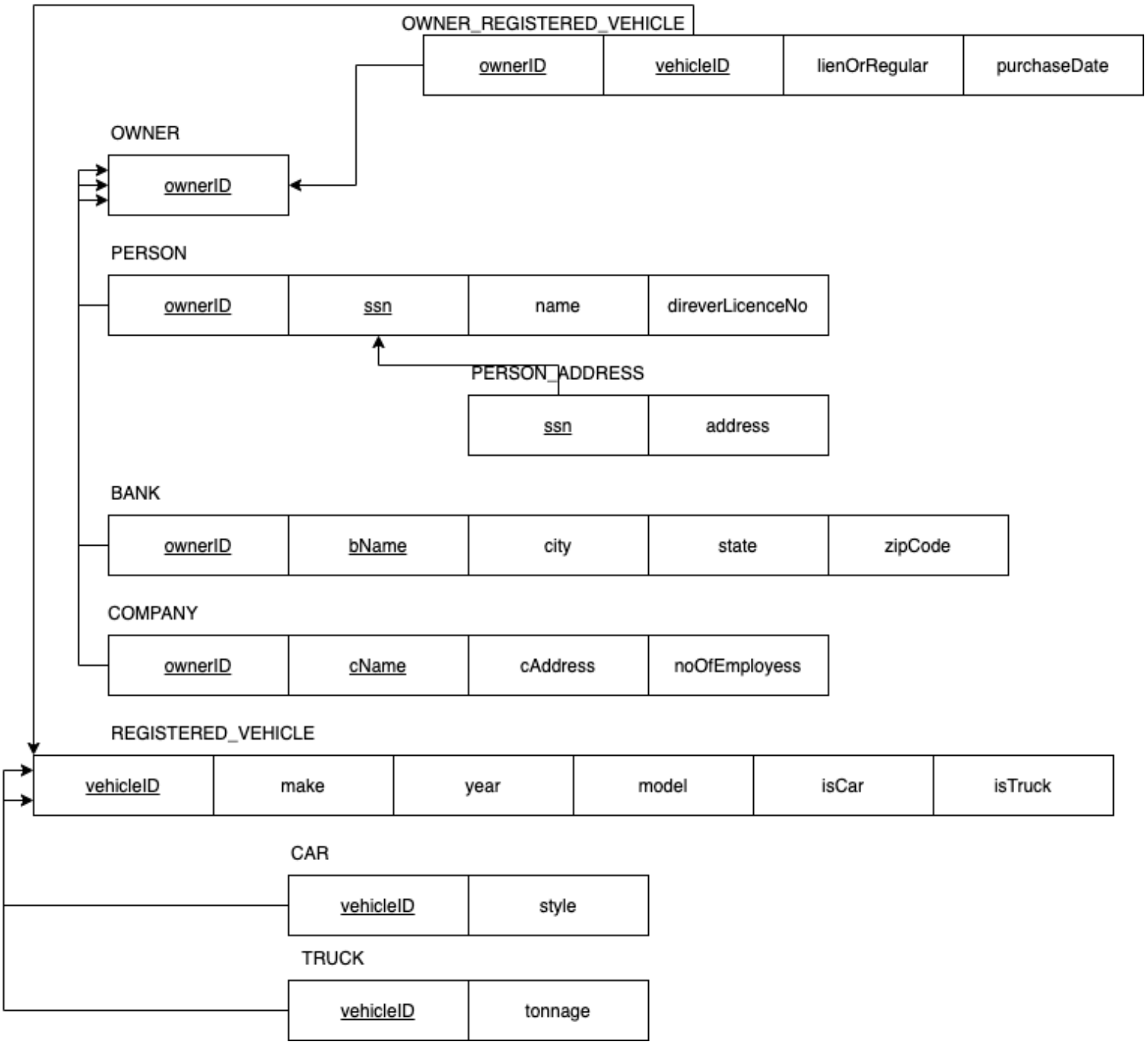
Question 2



Assumptions

-Since each object has an information, and the information will be kept permanent or borrowed, I separated them.
-I could have shared the materials for PAINTING and SCULPTURE, but I did it separately because one had multiple values.
-Since each art will have an artist and an information section in each art, I connected them one-to-one.

Question 3



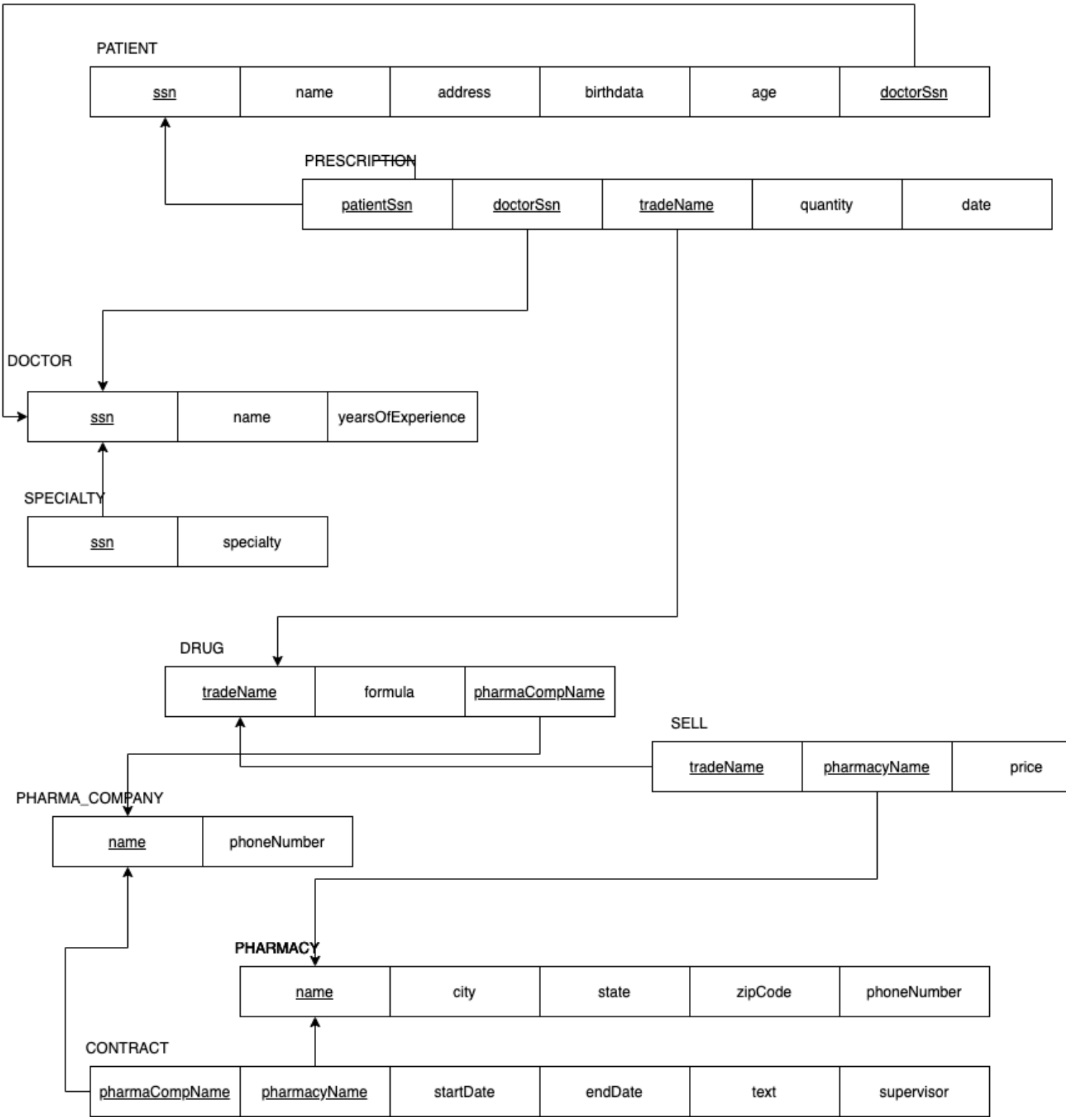
Assumptions

-Since address is multi value, I made a separate table, I used ssn as foreign key

-Owner id is primary key only in owner table, foreign key in all other tables.

-Since registered_vehicle super type, car and truck are also subtypes, I took them separately.

Question 4


PATIENT
ssn
name
address
birthdata
age
doctorSsn
PRESCRIPTION
patientSsn
doctorSsn
tradeName
quantity
date
DOCTOR
ssn
name
yearsOfExperience
SPECIALTY
ssn
specialty
DRUG
tradeName
formula
pharmaCompName
SELL
tradeName
pharmacyName
price
PHARMA_COMPANY
name
phoneNumber
PHARMACY
name
city
state
zipCode
phoneNumber
CONTRACT
pharmaCompName
pharmacyName
startDate
endDate
text
supervisor

Assumptions

- For Prescription table, it has ternary relationship therefore it contains more foreign key (patientSsn,doctorSsn,tradeName)

-Doctor can have more specialty, therefore, to keep the their specialties in a separate place, I kept them in the SPECIALTY table and linked with ssn.

-Sell is an attributes therefore I made a new table with its properties and the primaryKeys(tradeName, pharmacyName) of both tables.

-Contract is an attributes therefore I made a new table with its properties and the ids of both tables.

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