MARMARA UNIVERSITY

FACULTY OF ENGINEERING
COMPUTER SCIENCE & ENGINEERING
DEPARTMENT

CSE3055
DATABASE SYSTEMS
Homework #1

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1)

E - Disjointness Constraint = Whether an instance of a supertype may simultaneously be a member of two (or more) subtypes

C - Weak Entity = Depends on the existence of another entity type

D - Attribute = Property of an entity

J - Subtype Discriminator = An attribute of the supertype whose values determine the target subtype(s)

F - Cardinality Constraint = Specifies maximum and minimum number of instances

G - Degree = Number of participating entity types in relationship
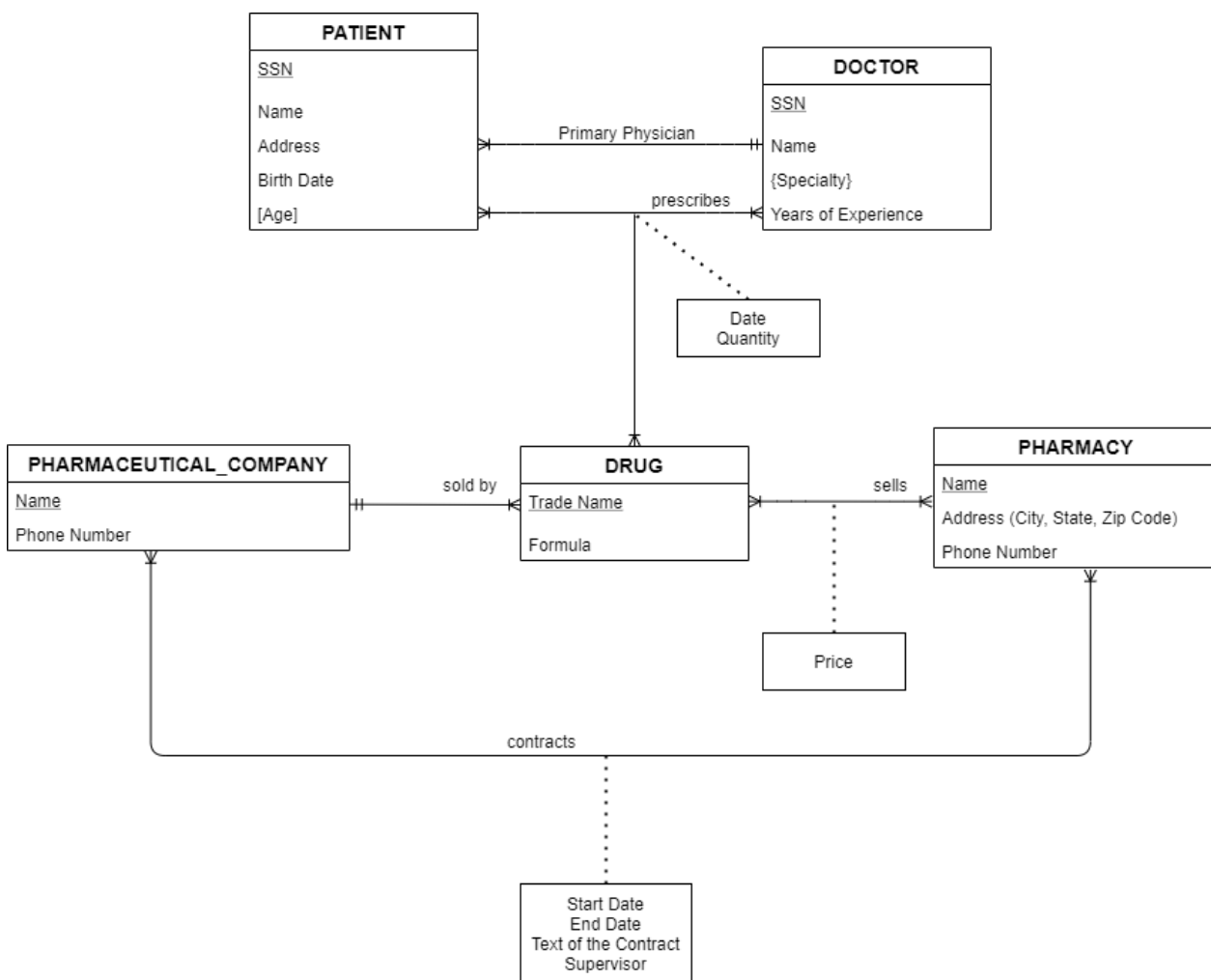
A - Completeness Constraint = Whether an instance of a supertype must also be a member of at least one subtype

H - Identifier = Uniquely identifies entity instances

I - Ternary = Relationship of degree 3

B - Composite Key =   Contains two (or more) attributes

2-A)

2-B)

We would delete price from the relationship between drug and pharmacy, and add it as an attribute to drug entity.

2-C)

If several prescriptions may have to be stored, we have to create a new entity for prescriptions and their dates for its different instances. The relationship between patient, doctor, drug and prescription would be 4-way relationship.