

Enhanced ER Model

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EER Model is ER Model +:

- subclass/super class (or subtype/supertype.)
- specialization and generalization
- category and union types
- attribute and relationship inheritance

Subtype: entity type w/ subgroups

Eg. EMPLOYEE subtyped to:

- SECRETARY
- ENGINEER
- ⋮

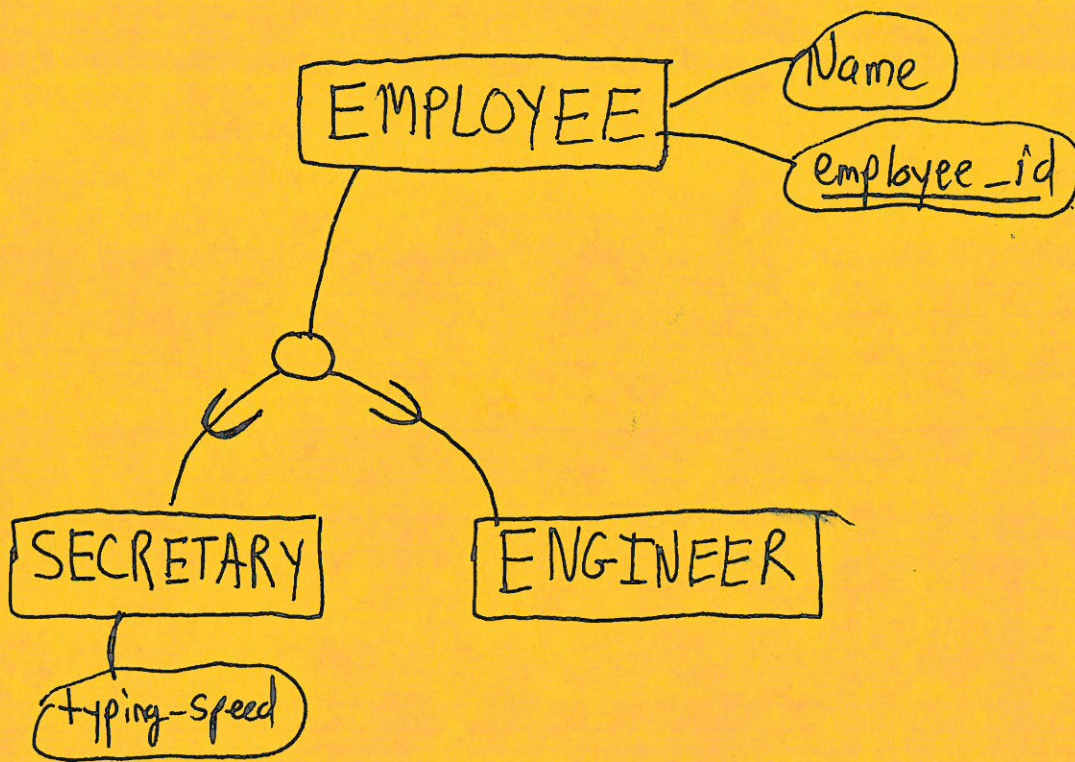
every member of subtype is member of type

specialization: defining sets of subclasses
for an entity type

superclass: entity type of specialization

E.g. EMPLOYEE is superclass

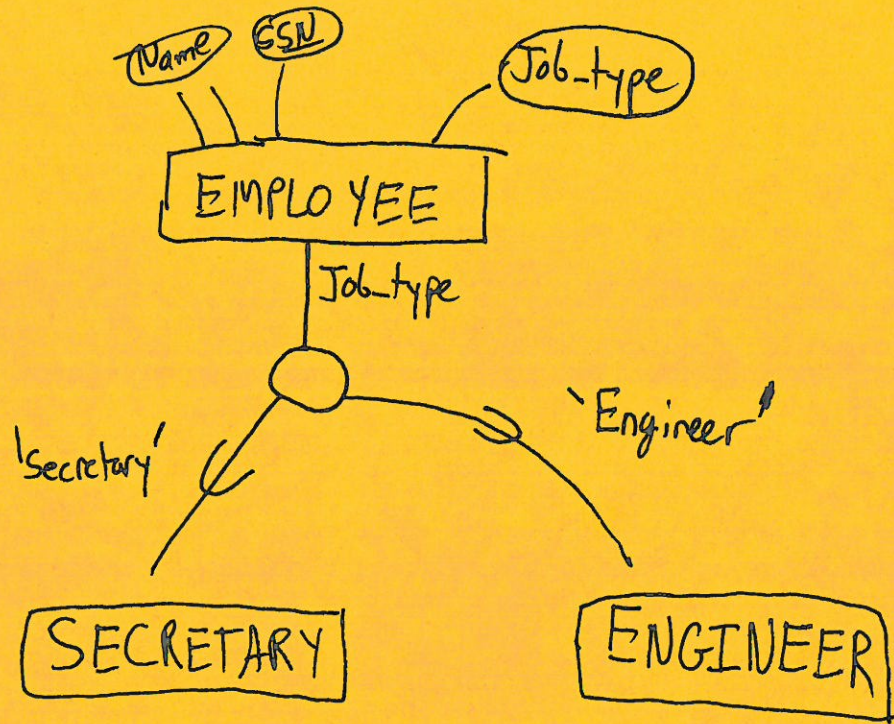
{ SECRETARY, ENGINEER } specialization



attributes of subclasses
are called "specific attributes"

Constraints and Characterizations of Hierarchies

predicate defined : condition defines subclass



attribute defined specialization:

all subclass members have the same attribute value

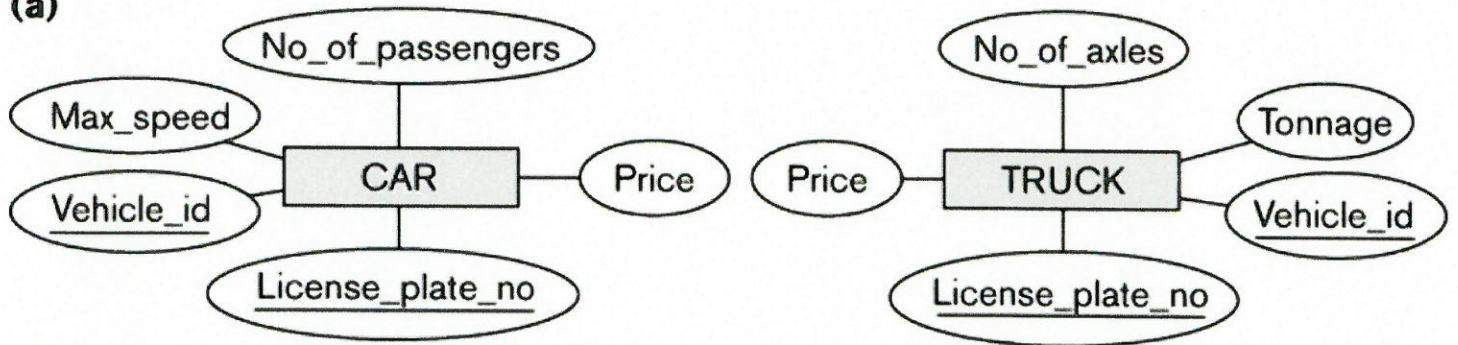
user defined specialization: membership defined by user entering data

4.2.2 Generalization:

generalization: identify common features into a single entity

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(a)



(b)

