
Data Modeling Part II

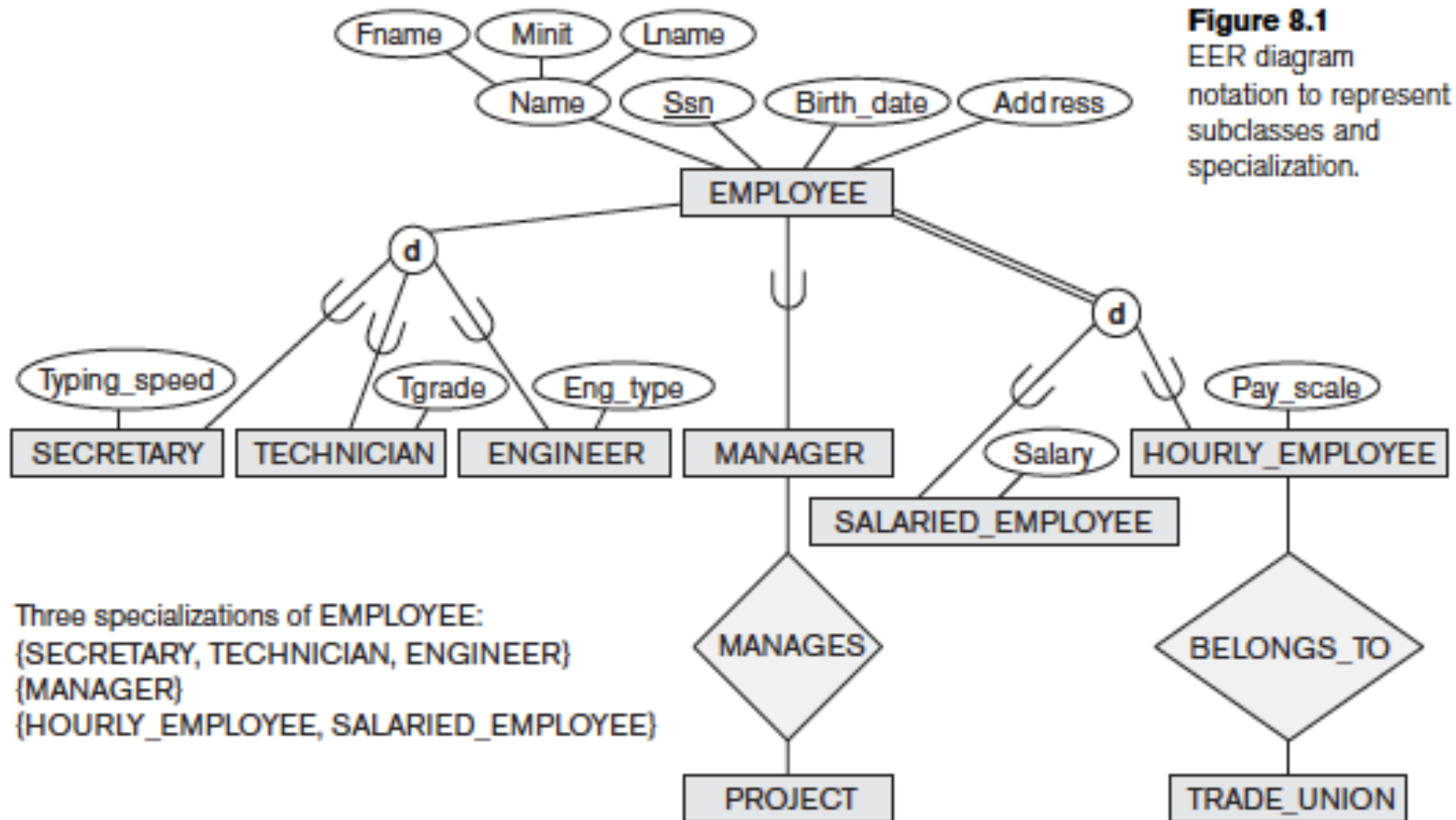
CSCI 5250
Database Design

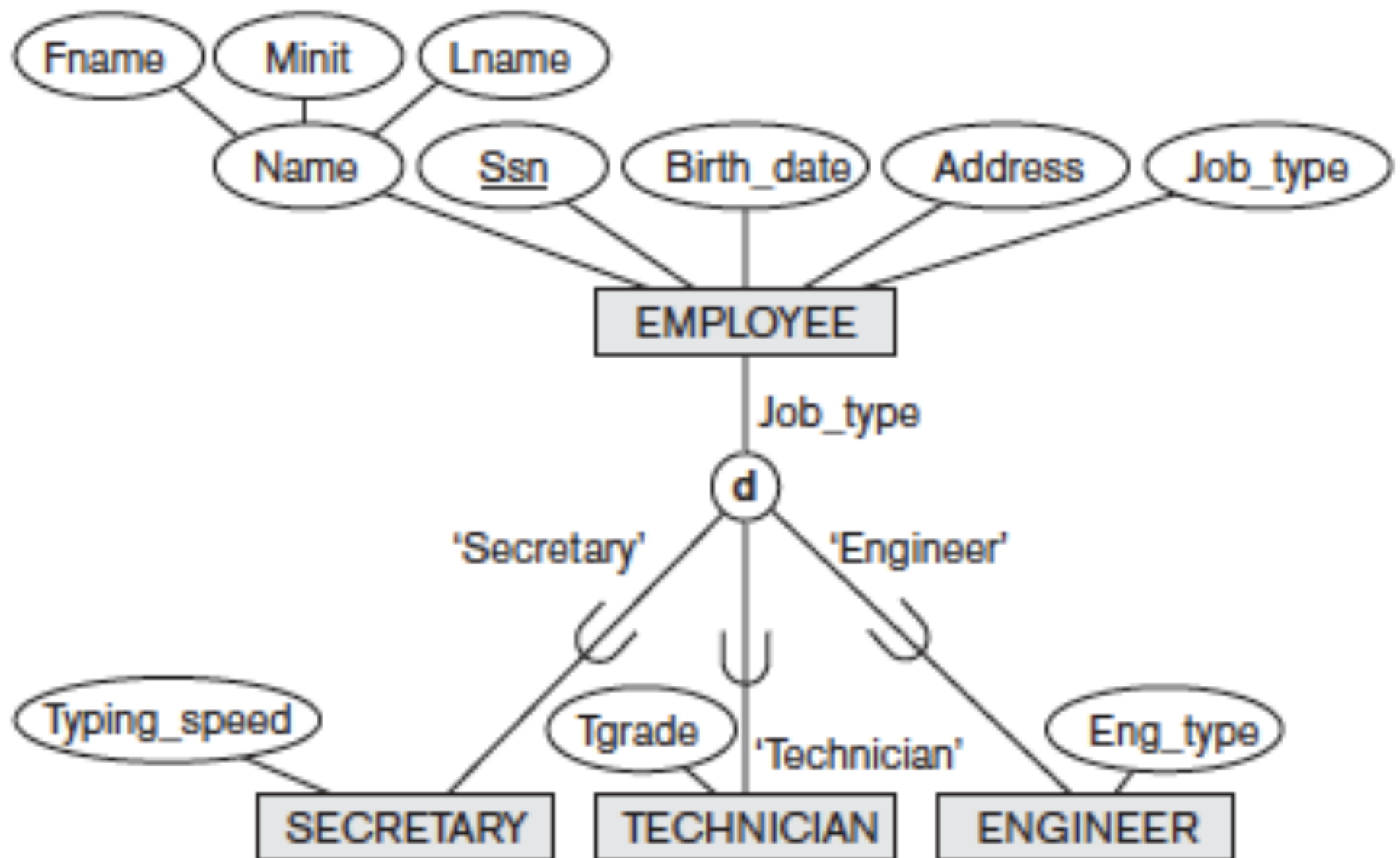
Outline

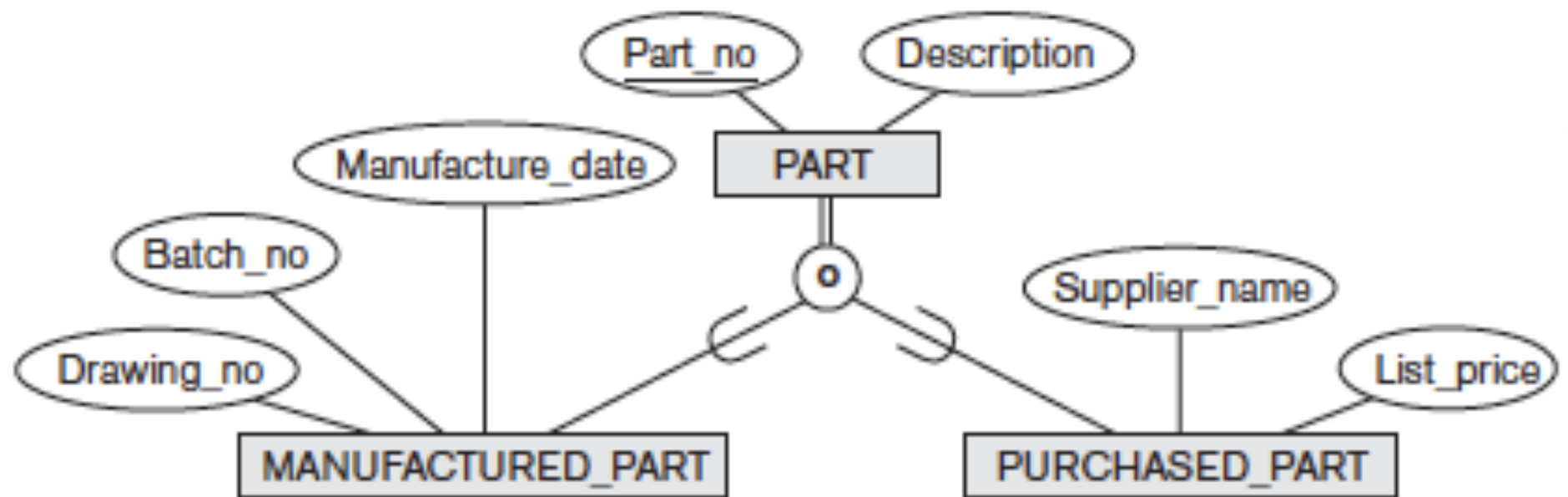
- Entity Matrix
- Attributes vs attribute values
- Enhanced ERD (EER)

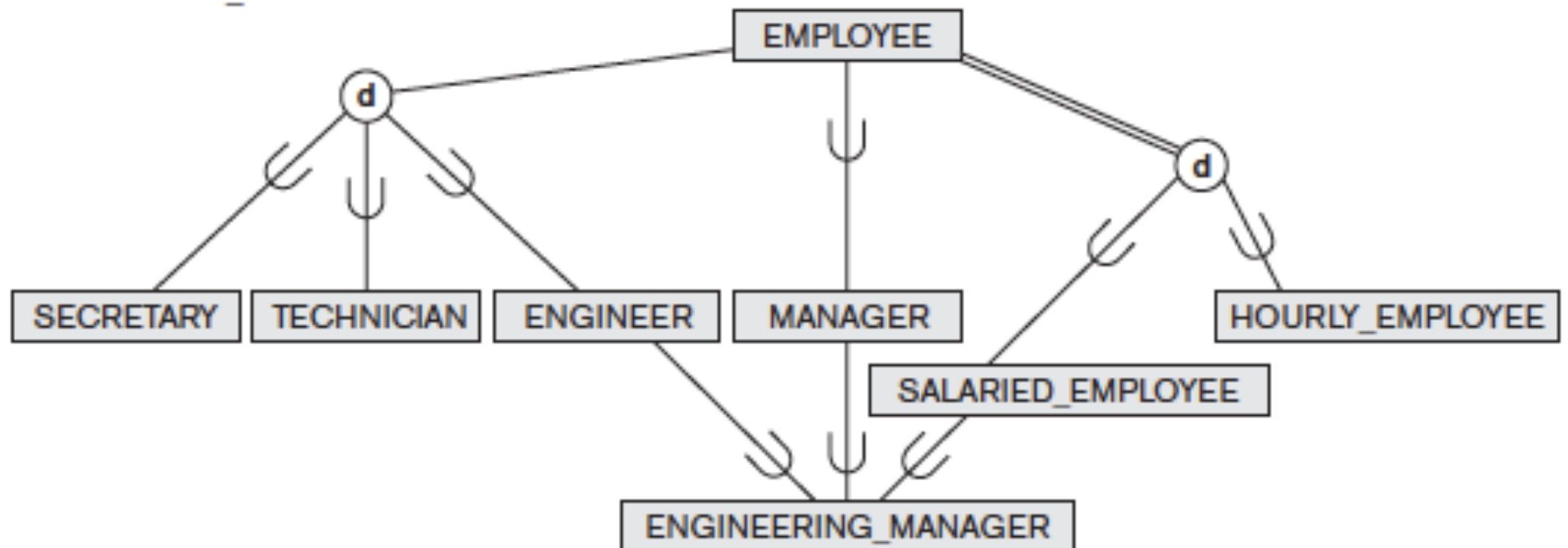
EER

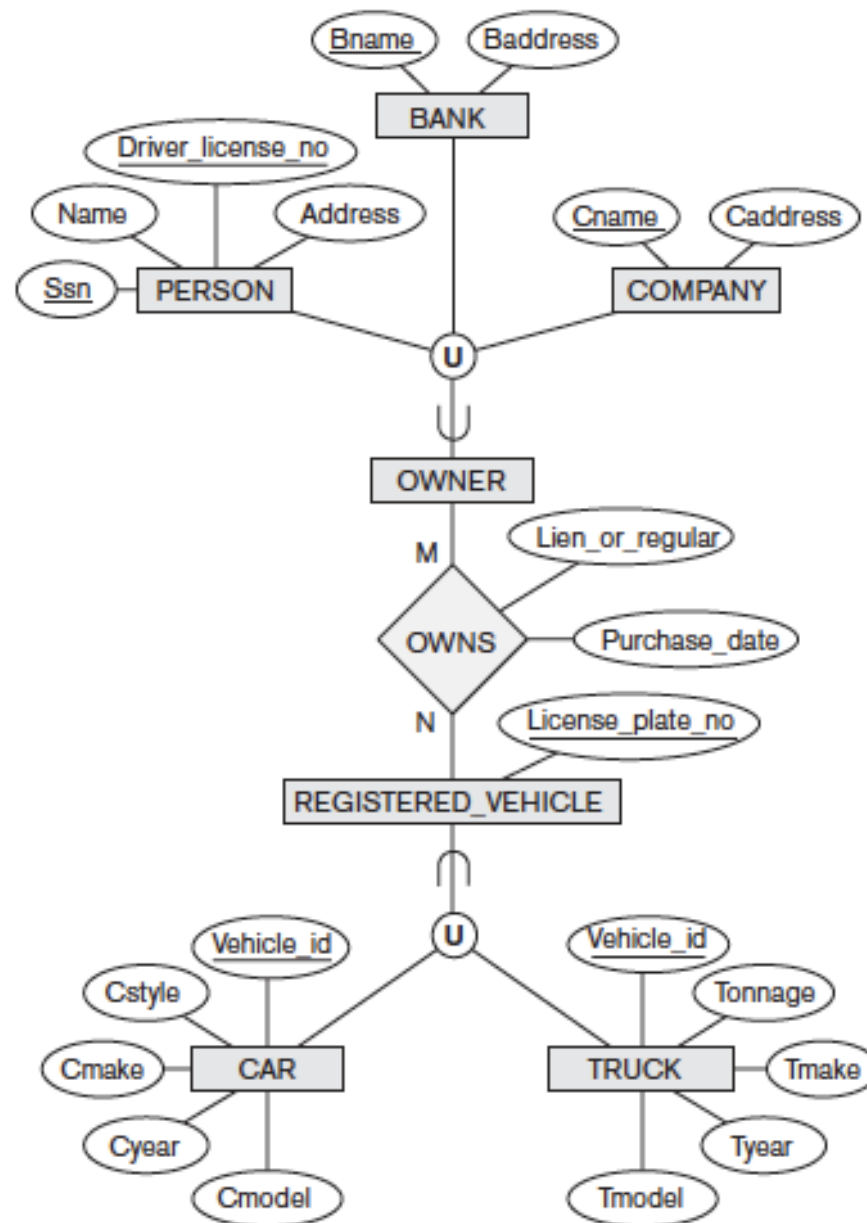
- Contains all features of ERD
- Adds
 - Sub and Superclasses
 - Specialization and Generalization
 - Union or Category type











OO in ERD

- Create single superclass with all attributes from subclasses
 - Potential for numerous NULL valued attributes
- Create only subclasses with each containing the superclass attributes
 - Maintenance problems
- Create tables for both super and subclasses
 - PK of super is also FK to sub