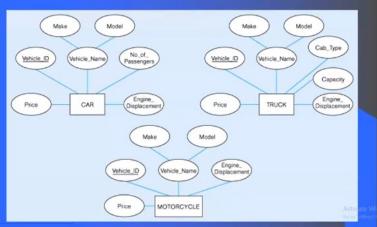
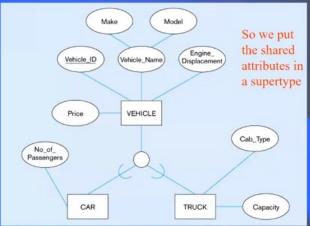


Example of generalization

(a) Three entity types: CAR, TRUCK, and MOTORCYCLE

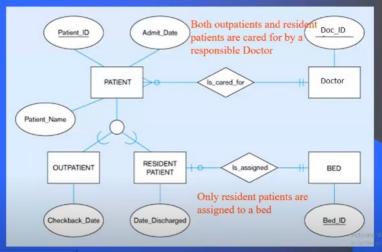


Generalization to VEHICLE supertype



Note: no subtype for motorcycle, since it has no unique attributes

Supertype/subtype relationships in a hospital



Constraints in Supertype

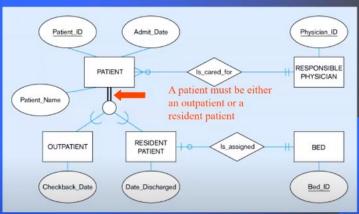
Completeness Constraints:

- Total Specialization Rule: Yes (double line)
- Partial Specialization Rule: No (single line)

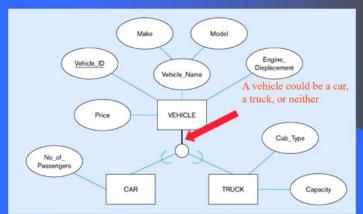
Disjointness Constraints:

- Total Disjoint (d)
- Overlap Rule (o)

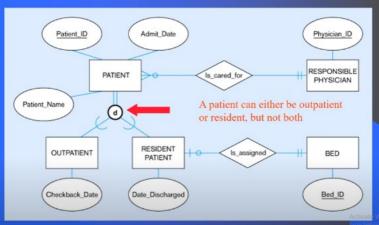
Examples of completeness constraints Total specialization rule

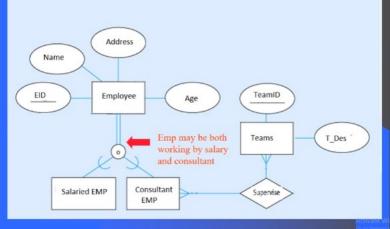


Partial specialization rule

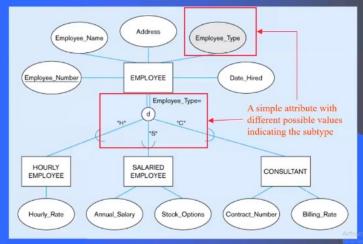


Examples of disjointness constraints Disjoint rule

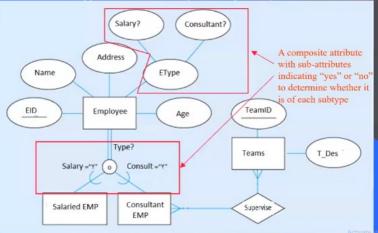




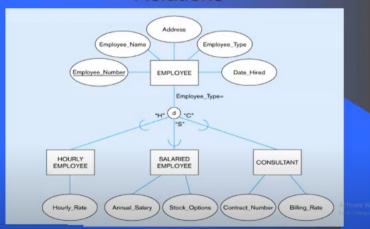
Introducing a subtype discriminator (disjoint rule)



Subtype discriminator (overlap rule)



Transforming EER Diagrams into Relations



Mapping Supertype/subtype relationships to relations

