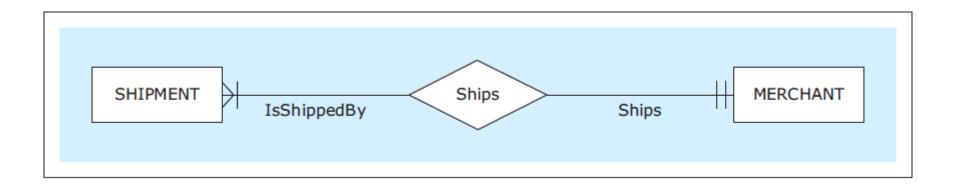
IT 775 Database Technology

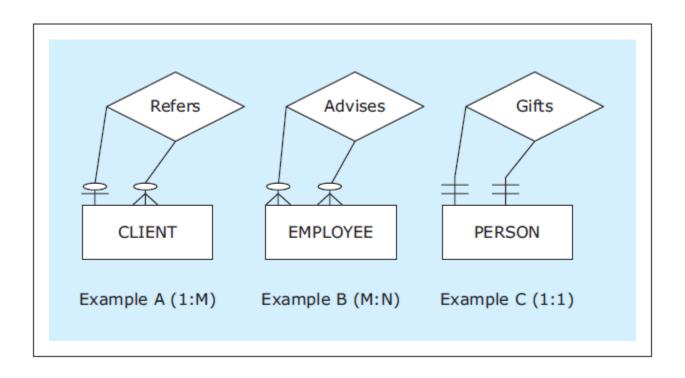
ER Modeling Degree of Relationship

- Degree of a relationship reflects how many entities are involved in the relationship
- Binary relationship relationship between two entities (degree 2 relationship)
- Unary relationship (recursive relationship) occurs when an entity is involved in a
 relationship with itself
 (degree 1 relationship)

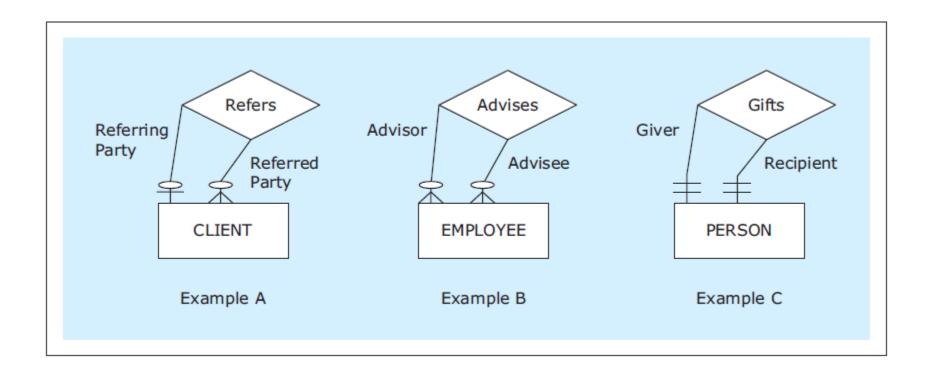
A binary relationship with role names



Unary relationship examples



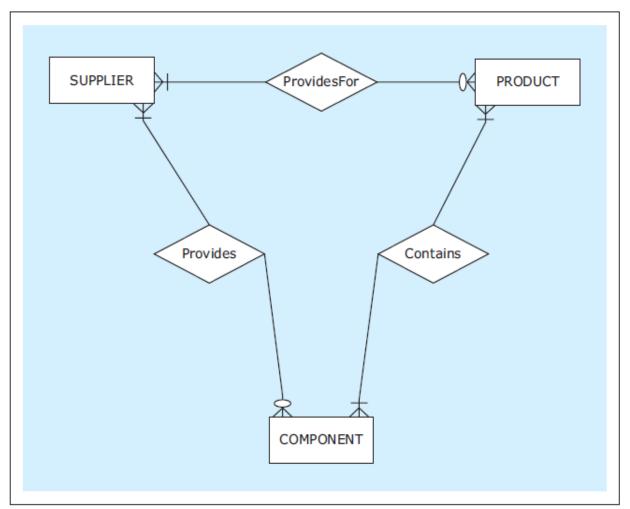
Unary relationships with role names



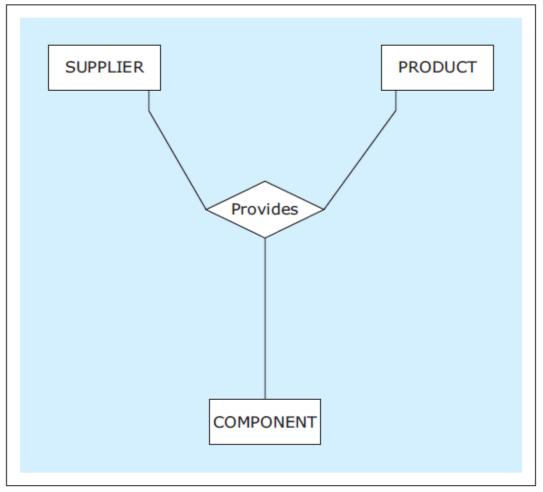
 Ternary relationship - relationship involving three entities (degree 3 relationship)

Three binary relationships that are insufficient for depicting given

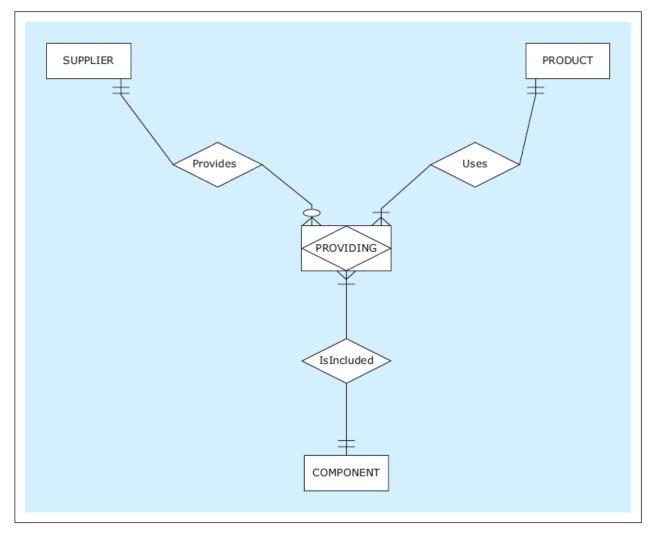
requirements



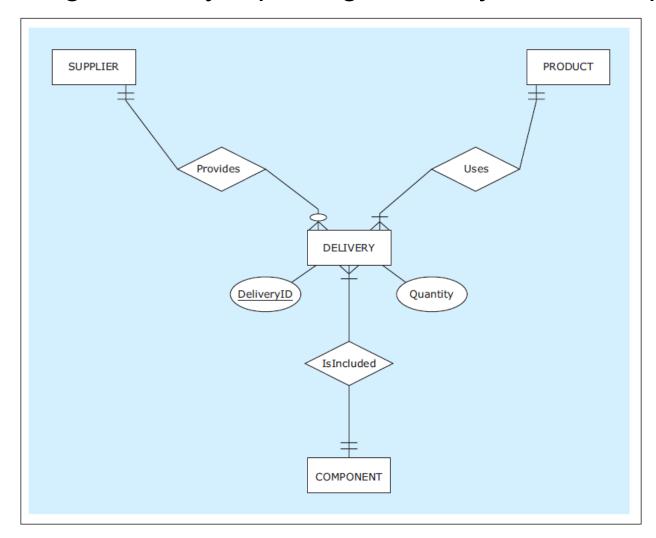
A ternary relationship



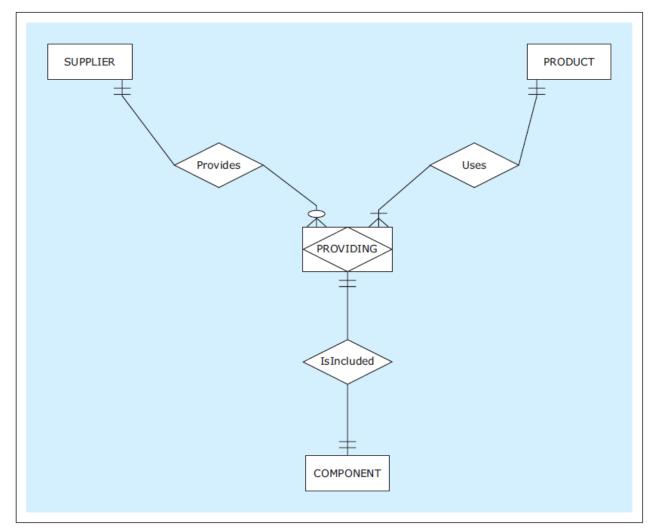
A ternary relationship via associative entity



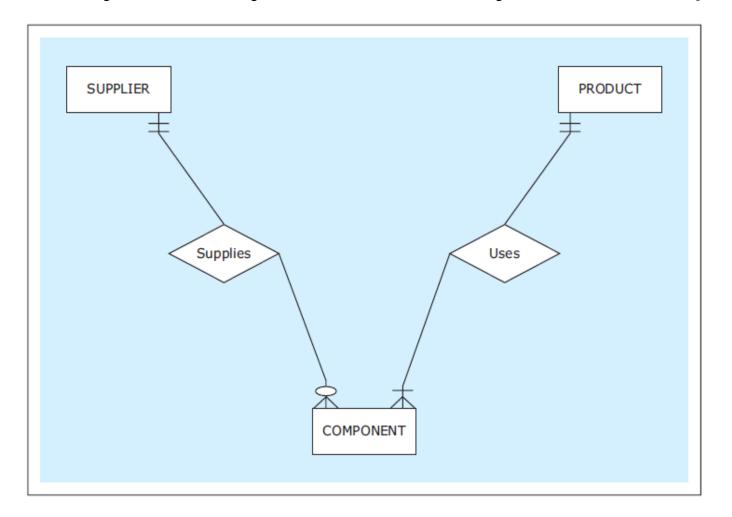
A regular entity replacing a ternary relationship



A many-to-many-to-one ternary relationship



A many-to-many-to-one ternary relationship



TERNARY (AND HIGHER DEGREE) RELATIONSHIPS

 In practice, ternary relationships are relatively rare, and relationships of degree higher than 3 are rarer still