

# IMPORTANT POINTS

## Entity Types

Strong

Weak

Associative

## Attributes

Entity name

Identifier

Partial Identifier

[Derived]

{Multivalued}

Composite(.,.)

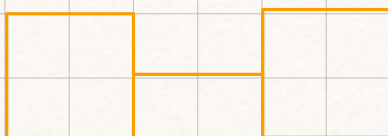
→ means attribute broken to components.

## Relationship Symbols

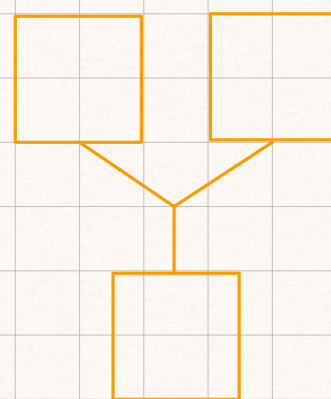
Unary



Binary

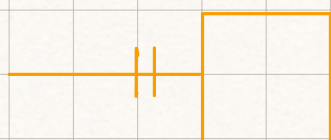


Ternary



## Cardinalities

Mandatory one



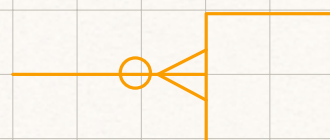
Mandatory many



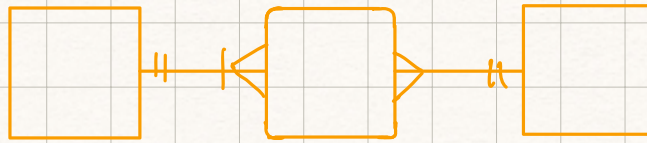
Optional one



Optional many

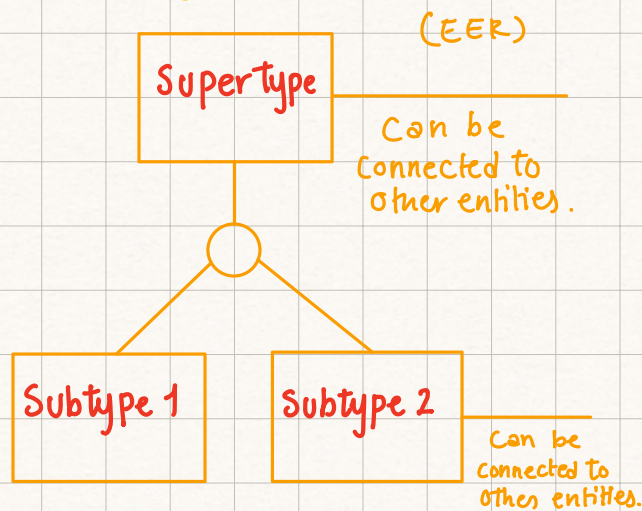


## Associative Entity

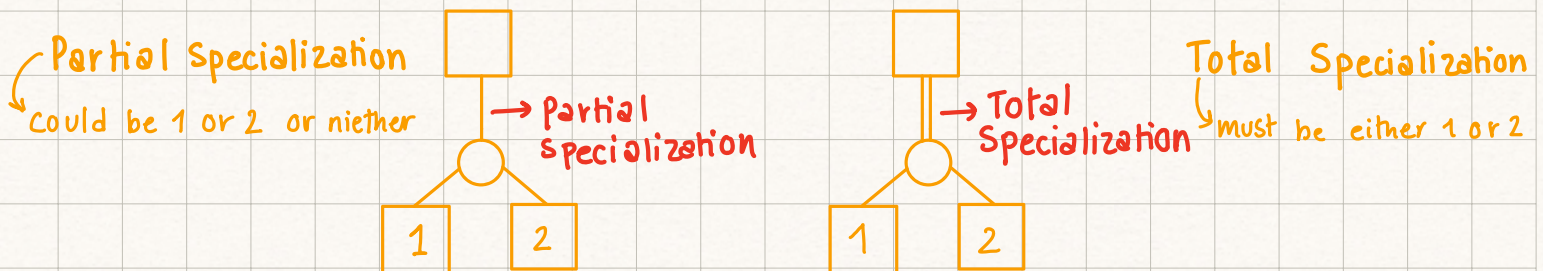


many to many can be replaced to two one to many relationships with associative entity

## Supertype & Subtype



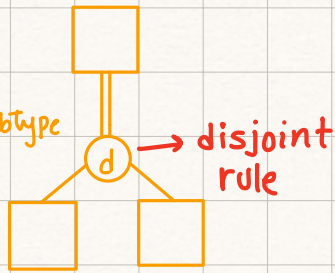
## EER Completeness Constraints



# EER Disjointness Constraints

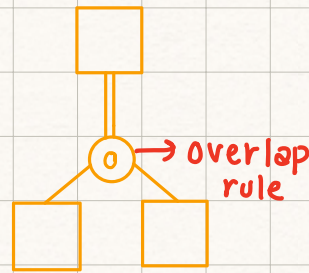
Disjoint Rule

Can only be on one subtype

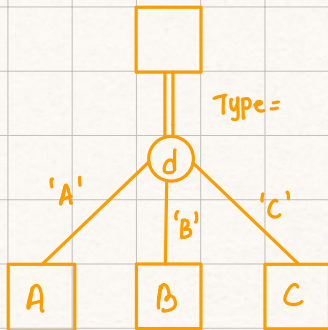


Overlap Rule

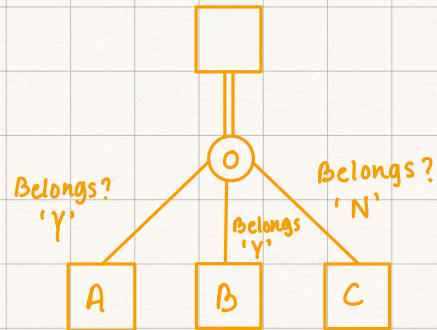
Could be more than of the subtypes



# EER Discriminators



Disjoint discriminator  
Simple attribute with different values to indicate subtypes



Overlapping discriminator  
Composite attribute whose subparts pertain subtypes, boolean value to indicate if it belongs to subtype or not.

# Key fields

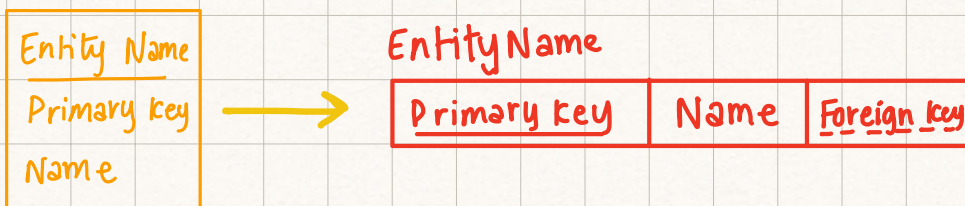
Primary key

Foreign key

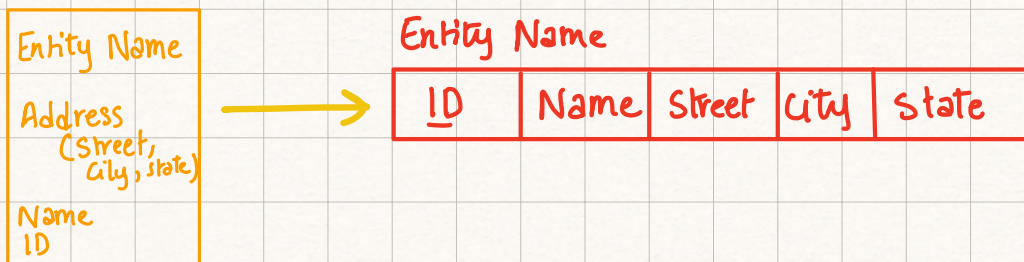
# Referential Integrity (Relation)



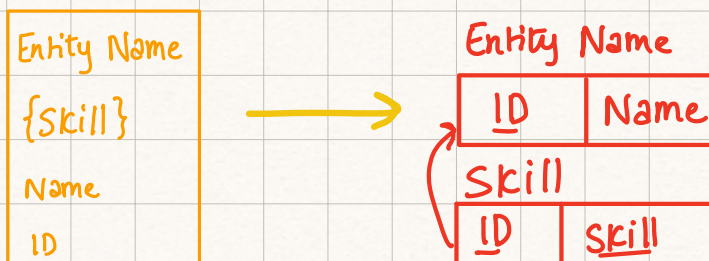
# Mapping Regular Entity (Relation)



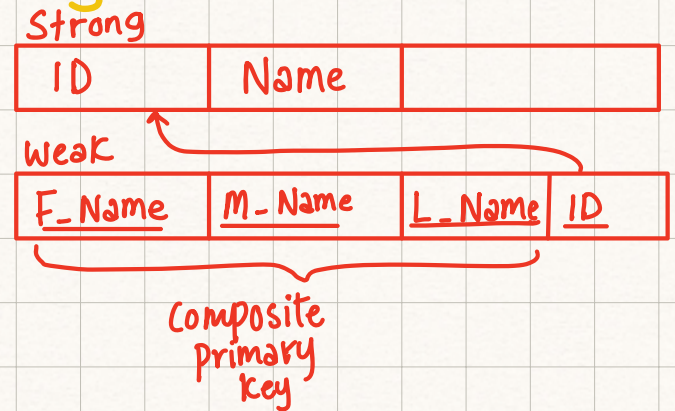
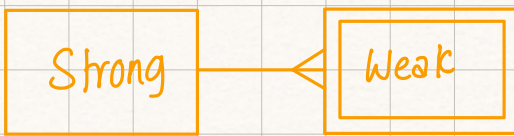
# Mapping Composite Attribute



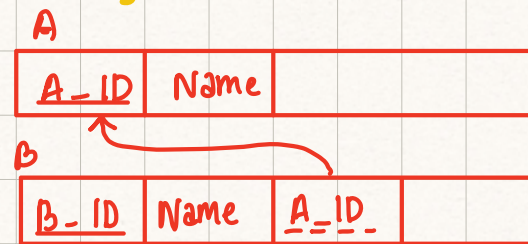
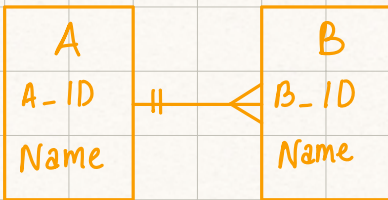
# Mapping multivalued Attribute



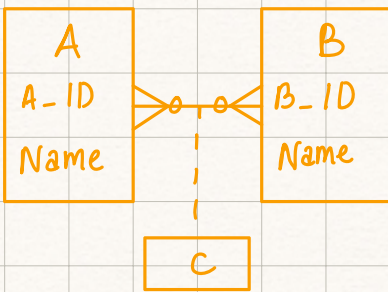
# Mapping Weak Entity



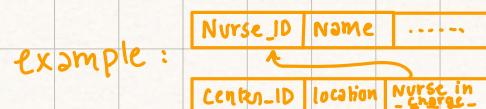
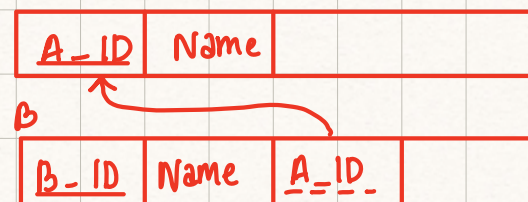
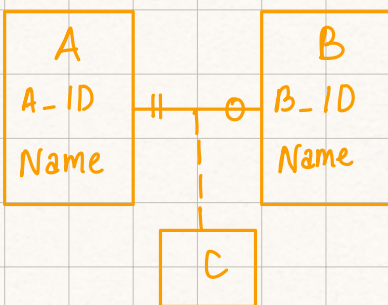
# Mapping one to Many



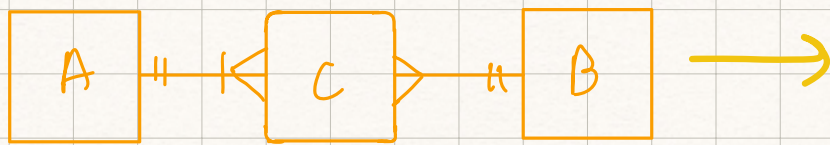
# Mapping many to Many



# Mapping one to one



# Mapping Associative



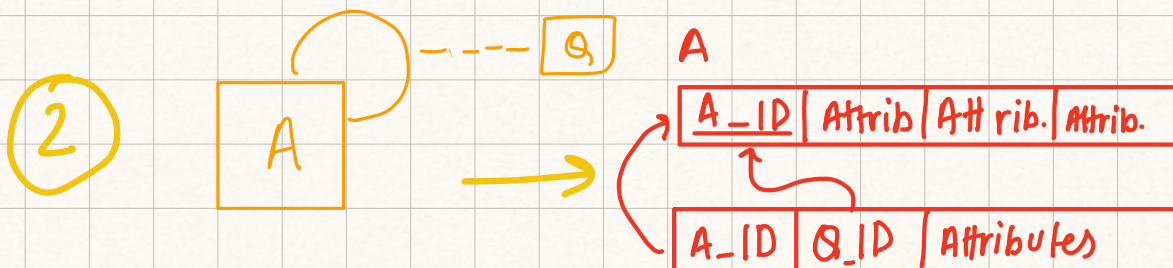
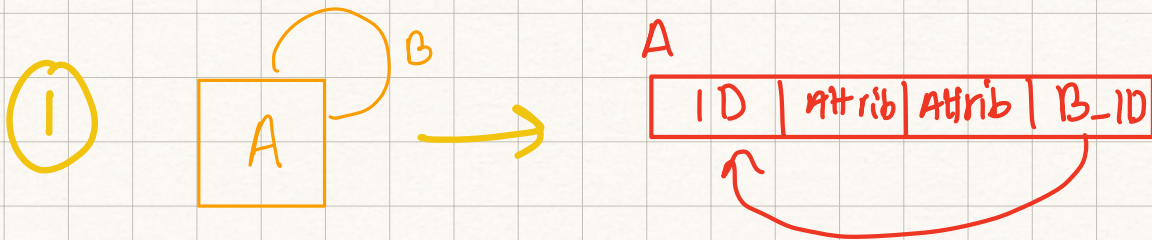
A			
<u>A_ID</u>	Name		
C			
<u>A_ID</u>	<u>B_ID</u>	Attribute	
B			
<u>B_ID</u>	Name		

# Mapping Associative with identifier



A			
<u>A_ID</u>	Name		
C			
<u>A_ID</u>	<u>B_ID</u>	<u>C_ID</u>	Attrib.
B			
<u>B_ID</u>	Name		

# Mapping Unary



# Mapping Super type & Sub type

