

EER Features

- ◌ Sub class and Super class
- ◌ Specialization
- ◌ Generalization
- ◌ Aggregation

EER Features : Sub class and Super class

- Super class is an entity type that has a relationship with one or more subtypes.
- Sub class is a group of entities with unique attributes.
- Example:

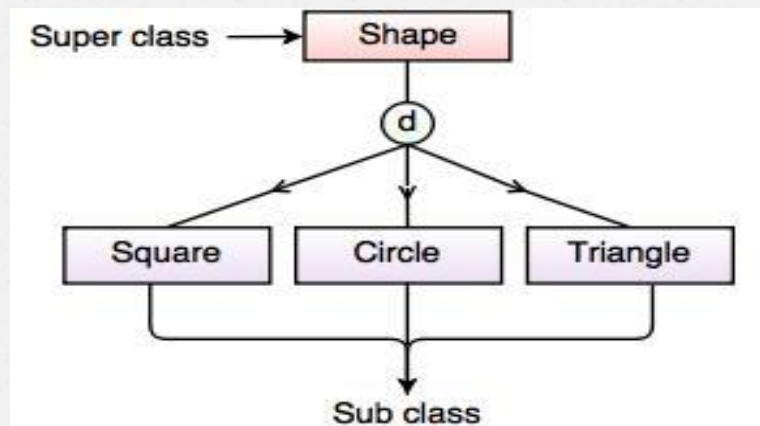


Fig. Super class/Sub class Relationship

EER Features :

Specialization

- Specialization is a process that defines a group entities which is divided into sub groups based on their characteristic.
- It is a top down approach, in which one higher entity can be broken down into two lower level entity.
- Example:**

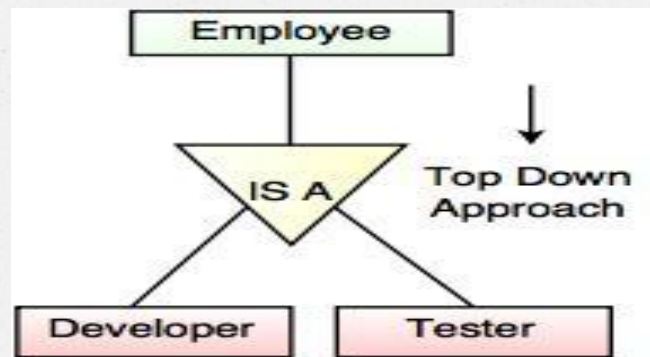


Fig. Specialization

EER Features :

Generalization

- Generalization is the process of generalizing the entities which contain the properties of all the generalized entities.
- It is a bottom approach, in which two lower level entities combine to form a higher level entity.
- Example:**

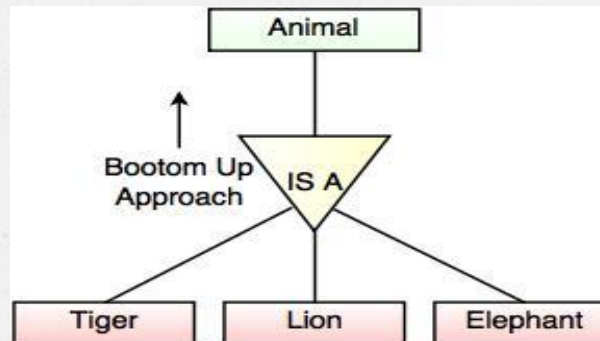
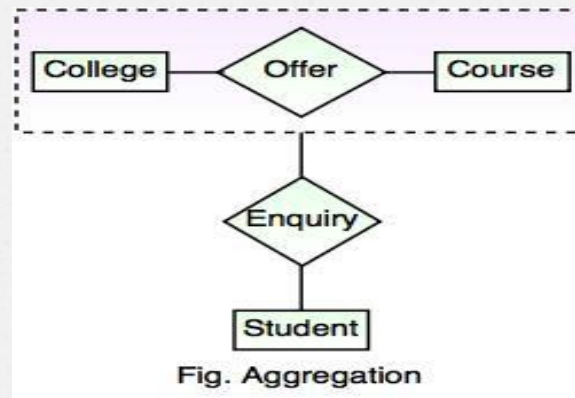


Fig. Generalization

EER Features :

Aggregation

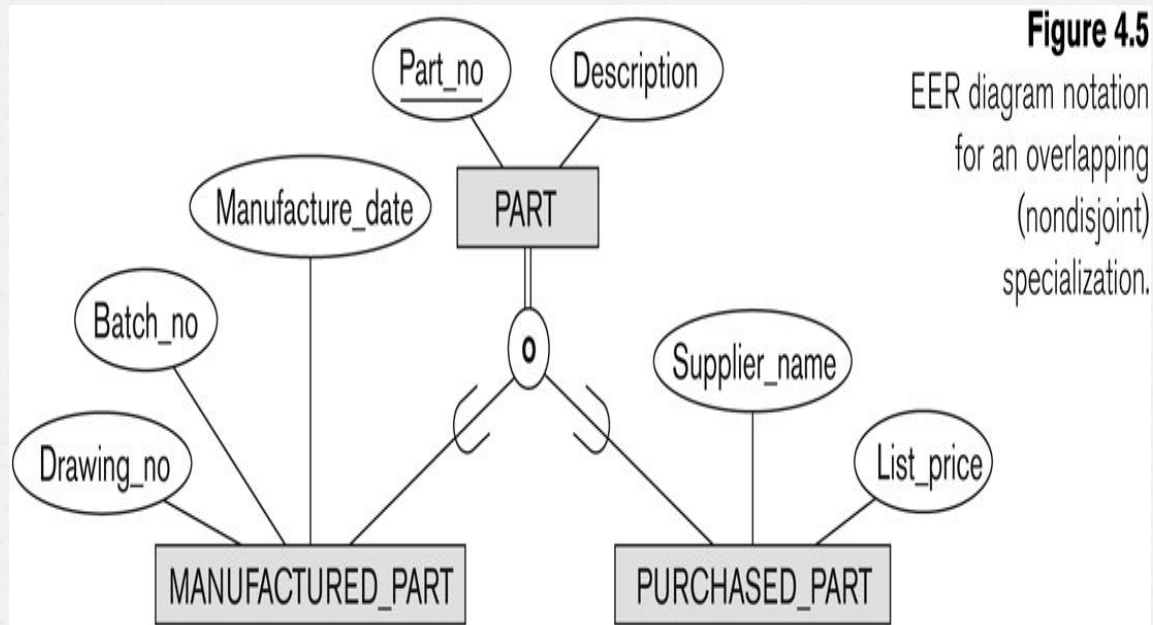
- o Aggregation is a process that represent a relationship between a whole object and its component parts.
- o It is a process when two entity is treated as a single entity.
- o Example:



Constraints on Specialization and Generalization

- Ø **Overlapped** : An entity from super-set can be related (can occur) in multiple sub-class sets
- Ø **Disjoint** : An entity from super set will be related to only one entity of a sub class.

Overlapping constraint



Disjoint constraint

