Database Management System

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Outline of Lecture 6

Features of EER Diagram

EER Model Designing



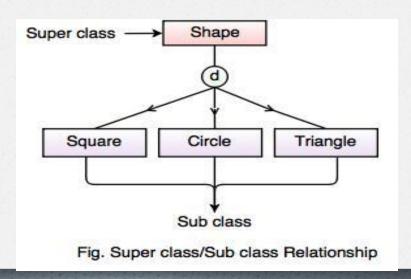
- Sub class and Super class
- Specialization
- Generalization
- Aggregation





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:



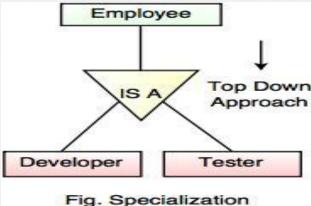


Specialization is a process that defines a group entities which is divided into sub groups based on their characteristic.

It is a top down approach, in which one higher entity can be broken down into two lower level

entity.

Example:



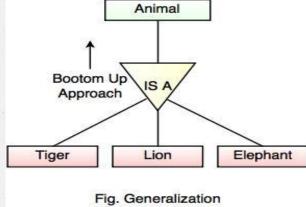
EER Features:Generalization

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

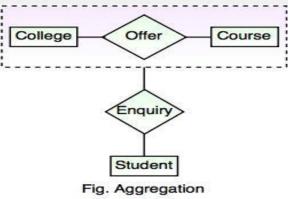
entity.

Example:



EER Features: Aggregation

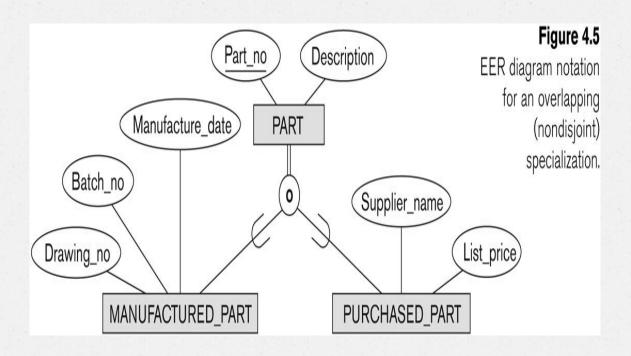
- Aggregation is a process that represent a relationship between a whole object and its component parts.
- It is a process when two entity is treated as a single entity.
- Example:



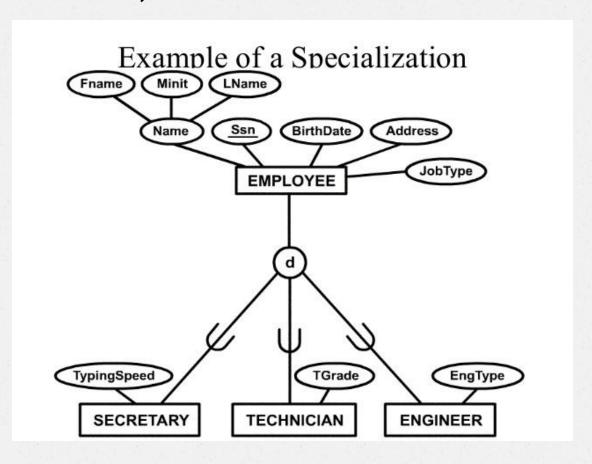
Constraints on Specialization and Generalization

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





Disjoint constraint



Case Study on EER Diagram of Hospital Management System

Any Questions ??

End of Lecture 6