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Enhanced Entity-Relationship (EER) Model

Assignment Projective Examples Help applications.

- To reflect data properties and constraints more precisely, a number of enlanted FS models (FER 1) were proposed O111
- Each EER model includes all the basic modeling concepts of the ER model we discussed before.
- We We further discuss the following corresposing ERs:
 - Subclass/superclass
 - Specialisation/generalisation
 - Constraints on specialisation/generalisation



Subclass and Superclass

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In many cases subclasses need to be represented explicitly because of their application significance.
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 Superclass/subclass, Supertype/subtype and Class/subclass are different names for the same concept.

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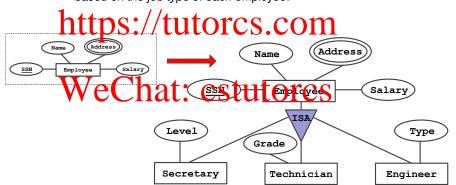
- Subclass can have additional attributes and relationships.
- This type of relationship between subclass and superclass is often described as an ISA relationship type.



Specialisation and Generalisation

Assipetialization is the property of defining a set Exam Help

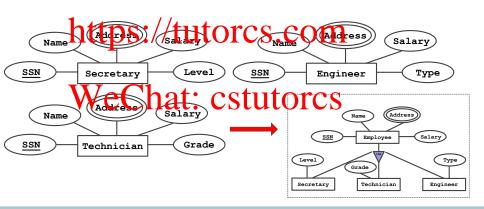
 Defined on distinguishing features of entities in the superclass, e.g., based on the job type of each employee:





Specialisation and Generalisation

Assignment reactives of entities in subclasses may be generalized into 1p single superclass (including primary key).





Constraints on Specialisation and Generalisation

Assignmentant Project Exam Help Specifies that the subclasses of the specialization must be disjoint.

• If not constrained, then entities in the subclasses may overlap.



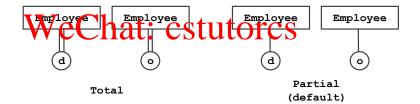


Constraints on Specialisation and Generalisation

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 total – every entity in the superclass must be a member of at least one subclass.

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Design Choices for the EER Model

Assignment Project Exam Help specializations and generalisation can be defined to make the conceptual model accurate.

- If the subclasses has/few specific attributes and no specific relationships, then tupo.
 - can be merged into the superclass,
 - People with one primore type attributes specifying the subclass that each entity belongs to.
- Choices of disjoint/overlapping and total/partial constraints are driven by rules in the miniworld being modeled.



Informal Method for Constructing an ER or EER Model

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- (1) Identify the entity types (including weak entity types)
- (a) Identify the relationship types (including ISA and identifying Intelligible types) UTOTCS. COM
- Identify the attributes of entity and relationship types (and their underlying domains)
- (4) dentify a primary key for each entity type
- (5) Claseify each ornally relationship type identified in step 2 (i.e. one-to-one, many-to-one or many-to-many)
- (6) Determine the participation constraints for each entity type in each binary relationship type
- (7) Determine the disjointness and completeness constraints for each ISA



Summary of Notation for ER and EER Diagrams

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