

# Assignment Project Exam Help

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#### **Enhanced Entity-Relationship (EER) Model**

# Assignment Projectic Examala as Help applications.

- To reflect data properties and constraints more precisely, a number of enlanted products from the properties of the product of t
- Each EER model includes all the basic modeling concepts of the ER model we discussed before.
- We All to the discost the following the property of the coder
  - 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.

Superclass/subclass, Supertype/subtype and Class/subclass are different

names for the same concept.

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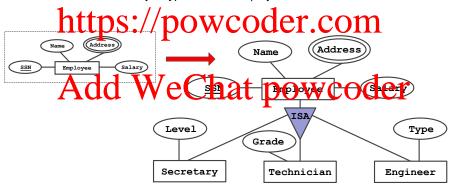
- Subclass can have additional attributes and relationships.
- This type of relationship between subclass and superclass is often described as an ISA relationship type.



#### **Specialisation and Generalisation**

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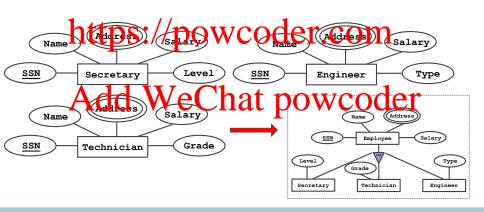
 Defined on distinguishing features of entities in the superclass, e.g., based on the job type of each employee:





#### **Specialisation and Generalisation**

ASSI dominant earlies of entities in subclasses may be generalized in a light 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.

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Overlap (default)

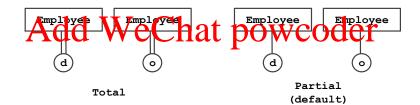


#### **Constraints on Specialisation and Generalisation**

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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 specialization and generalisation and be defined to make the conceptual model accurate.

- If the subclasses has/few specific attributes and no specific relationships, then TUDS. / DOW COUCH. COIN
  - can be merged into the superclass,

Aerice with the genore mentribute spectful to the state 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 Irelationship types) OWCOGET.COM
- Identify the attributes of entity and relationship types (and their underlying domains)
- (4) Identify a primary key for each entity type
- (3) Classify each binary relationship type doubtined 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**

