

#### 程序代写代做 CS编程辅导



# Enhanced Modeling Concepts Assignment Project Exam Help

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## Enhanced Entity-Relationship (EER) Model

- To reflect data properties and constraints more precisely, a number of enhanced ER models (EERS) were proposed.
- Each EER model includes an include the state of the ER model we discussed before.

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- We will further discuss the following concepts in EERs:
  - OO: 749389476
     Subclass/superclass
  - Specialisation/generalisations.com
  - Constraints on specialisation/generalisation



### 程序代写代做 CS编程辅导 Subclass and Superclass

- bgrouping of entities. Subclass of an enti
  - In many cases subclasses need to be represented explicitly because of their application of their applications
- Superclass/subclass/Supertype/authrype/artd/Dass/subclass are different names for the same concept.

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- Subclass inherits attributes and relationships of superclass.
- Subclass can have additional attributes and relationships.

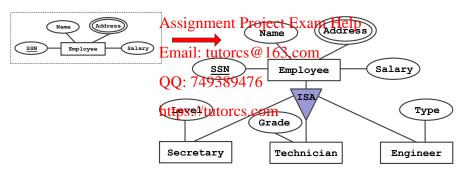
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 This type of relationship between subclass and superclass is often described as an ISA relationship type.



### 程序代写代做 CS编程辅导 Specialisation and Generalisation

- Specialization is the defining a set of subclasses of an entity type (top-down).
  - Defined on district deatures of entities in the superclass, e.g., based on the job type of each employee:

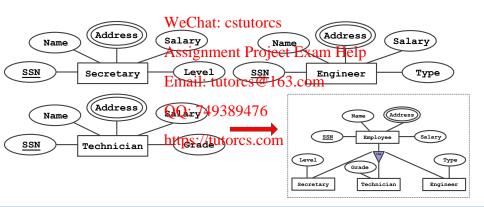
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### 程序代写代做 CS编程辅导 Specialisation and Generalisation

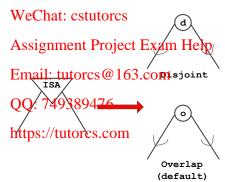
- Generalization is a cess of specialization (bottom-up).
  - Common feature single superclared into si





#### 程序代写代做 CS编程辅导 Constraints on Specialisation and Generalisation

- Disjointness constitution
  - Specifies that the specialization must be disjoint.
  - If not constrained, trief entities in the subclasses may overlap.





#### 程序代写代做 CS编程辅导 Constraints on Specialisation and Generalisation

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

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  - partial an entity may not belong to any of the subclasses.

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### Design Choices for the EER Model

- Specializations and ( To the property of the prop
- If the subclasses has New Specific attributes and no specific relationships, then

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- can be merged into the superclass, Email: tutorcs@163.com
- replace with one or more type attributes specifying the subclass that each entity belog: to. 49389476
- Choices of disjoint/overlapping and total partial constraints are driven by rules in the miniworld being modeled.



### Informal Method for CS编程辅导 Informal Method for COnstructing an ER or EER Model

- Draw an ER or EER prepresent the following design:
  - (1) Identify the entity types (including weak entity types)
  - Identify the relationship types (including ISA and identifying relationship types)
  - (3) Identify the attribute gof reactify and jelationship types (and their underlying domains)
  - (4) Identify a primary key for each entity type om
  - (5) Classify each binary relationship type identified in step 2 (i.e. one-to-one, many-to-one or many-to-many)
  - (6) Determine the **participation constraint**s 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

