Hard_questions_details:

What is the purpose of the Extended Entity-Relationship (EER) Model?
   a: To support specialization and generalization abstractions
   b: To focus on physical database design
   c: To enhance the conceptual database design
   d: To implement database applications
Answer: a
Difficulty: Medium

What is the difficulty in specifying constraints for higher-degree relationships?
   a: Constraints are easier to specify for higher-degree relationships
   b: Constraints are harder to specify for higher-degree relationships
   c: Constraints are not needed for higher-degree relationships
   d: Constraints are ambiguous for higher-degree relationships
Answer: b
Difficulty: Medium

How can a ternary relationship be represented as a weak entity type?
   a: By having multiple key attributes
   b: By participating in multiple identifying relationships
   c: By having composite attributes
   d: By having a single identifying relationship
Answer: b
Difficulty: Hard

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Difficulty: Hard

Medium_questions_details:

Which methodology is used for conceptual design in the ER model?
   a: Enhanced Entity Relationship (EER) Diagrams
   b: Unified Modeling Language (UML) Class Diagrams
   c: Entity Relationship (ER) Diagrams
   d: Object-Oriented Analysis and Design (OOAD)
Answer: c
Difficulty: Easy

What is a composite attribute in the ER model?
   a: An attribute with multiple values for an entity
   b: An attribute that is composed of several components
   c: An attribute that is unique to each entity
   d: An attribute that is a key attribute
Answer: b
Difficulty: Easy

Which of the following is an example of a composite attribute?
   a: SSN
   b: Name
   c: Address
   d: Sex
Answer: c
Difficulty: Easy

What is a key attribute in the ER model?
   a: An attribute that is a composite attribute
   b: An attribute that is unique for each entity
   c: An attribute that is multivalued
   d: An attribute that is optional
Answer: b
Difficulty: Easy

What is a value set associated with an attribute in the ER model?
   a: The set of values associated with an entity set
   b: The set of values associated with a relationship

c: The set of values associated with an attribute

d: The set of values associated with an entity type

Answer: c

Difficulty: Easy

Easy_questions_details:

What is the main focus of the database design process?

   a: Applications design

   b: Conceptual database design

   c: Physical database design

   d: Database implementation

Answer: b

Difficulty: Easy

What is an entity in the ER model?

   a: A relationship between two entities

   b: A property used to describe an entity

   c: A specific thing or object in the mini-world represented in the database

   d: A key attribute of an entity type

Answer: c

Difficulty: Easy

What is an entity set in the ER model?

   a: A collection of entities stored in the database

   b: A set of attributes for an entity type

   c: A set of relationships between entities

   d: A set of composite attributes

Answer: a

Difficulty: Easy

What is the purpose of the (min, max) notation for relationship constraints?

   a: To specify the value sets of attributes

   b: To display the constraints on the edges of relationships

   c: To define the entities in a relationship

   d: To group entities with the same attributes

Answer: b

Difficulty: Medium

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Difficulty: Hard