

Section 2 Design

CONCEPTUAL & PHYSICAL MODELS

A customized hat is an example of the conceptual model or the physical model?

Physical Model

Many reasons exist for creating a conceptual model. Choose three appropriate reasons from the options below.

They model functional and informational needs.

They capture current and future data needs.

They accurately describe what a physical model will contain.

An Entity Relationship Diagram is an example of a Physical Model. True or False?

False

Which of the following are reasons we create conceptual models?

All of the above

ENTITIES, INSTANCES, ATTRIBUTES AND IDENTIFIERS

Which of the following entities most likely contains invalid attributes?

Entity: Car. Attributes: Owner Occupation, Owner Salary, Speed

All of the following would be instances of the entity PERSON except which?

Male

What is the purpose of a Unique Identifier?

To identify one unique instance of an entity, by using one or more attributes and/or relationships.

A/an _____ is a piece of information that in some way describes an entity. It is a property of the entity and it quantifies, qualifies, classifies or specifies the entity.

Attribute

In a physical data model, an attribute is represented as a/an

Column

Unique Identifiers....

Distinguish one instance of an entity from all other instances of that entity

Which of the following statements about attributes are true?

They describe, qualify, quantify, classify, or specify an entity.

They have a data type such as a number or character string.

Entities are usually verbs. True or False?

False

Some of the following could be attributes of an ENTITY called PERSON. Select the incorrect attributes for PERSON.

Freddy Wilson

Priya Hansenna

An entity may have which of the following?

Instances

The word "Volatile" means....

Changing constantly; unstable

In the following statements, find two examples of ENTITY: Instance.

DAIRY PRODUCT: milk

BOOK: Biography of Mahatma Gandhi

ENTITY RELATIONSHIP MODELING AND ERDS

A well structured ERD will show only some parts of the finished data model. You should never try to model the entire system in one diagram, no matter how small the diagram might be. True or False?

False

An Entity Relationship model is independent of the hardware or software used for implementation. True or False?

True

Which of the following statements are true about ERD's?

A piece of information should only be found one place on an ERD.

You should not model derivable data.

The purpose of an ERD is to document the proposed system and facilitate discussion and understanding of the requirements captured by the developer. True or False?

True