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3:17 PM

Attribute Types

· Composite Key => Primory Ker composed of more

than one attribute · Composite Attribute => Attribute that can be substituted to yield additional attributes

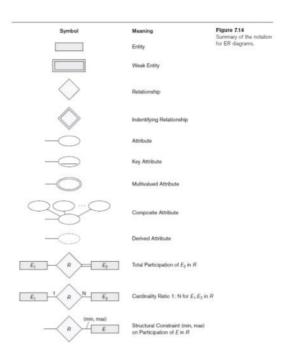
. Simple Attributes => Attribute that cannot be subdivided

. Single-Valued Attribute => Attribute that has only a single value (single Attribute)

. Multivalued Attributes => Attributes that have many values for a given object record. (A tuple)

Design of E-R Model

- · I dentify all Entities
- · I dentify a common set of Attributes for each entry
- · Identify all Relationships between any 2 entities.



Steps to Identify Cardinality of Relationship

How to Identify 1-1, 1-N, or M-N for a Relationship between Two Entities

- 1. Pick an object in the left Entity, check whether, for a given object in the left side Entity, it is allowed to have a relationship with one or more objects from the right-side Entity
- 2. Pick an object in the right-side Entity, check whether for a given object in right Entity, it is allowed to have a relationship with one or more objects from the left side of Entity

If Both Step 1 and Step 2 is NO => 1-1 If Yes in Step 1 but No in Step2

If No in Step 1 but Yes in Step2 => N-1

(Note that N-1 is equivalent to 1-N if you switch the left entity with the right

If Yes in Both Step 1 And Step 2