Database management Systems edition 9 Chapter 3

Answers to Review Questions

- Define each of the following terms:
 - Entity type A collection of entities that share common properties or a. characteristics.
 - b. Entity-relationship model A logical representation of the data for an organization or for a business area.
 - Entity instance A single occurrence of an entity type. c.
 - Attribute A property or characteristic of an entity type that is of interest to the d. organization.
 - Relationship type A meaningful association between (or among) entity types. e. f.
 - Identifier An attribute (or combination of attributes) that uniquely identifies individual instances of an entity type.
 - Multivalued attribute An attribute that may take on more than one value for a g. given entity instance.
 - Associative entity An entity type that associates the instances of one or more entity types and contains attributes that are peculiar to the relationship between h. those entity instances.
 - Cardinality constraint Specifies the number of instances of one entity that can (or must) be associated with each instance of another entity. i.
 - Weak entity An entity type whose existence depends on some other entity type.
 - Identifying relationship The relationship between a weak entity type and its k. owner.
 - Derived attribute An attribute whose values can be calculated from related 1. attribute values.
 - Multivalued attribute See letter g. m.
 - Business rule A statement that defines or constrains some aspect of the business. n.
- 2. Match the following terms and definitions:
 - i composite attribute
 - d associative entity
 - b unary relationship j weak entity

 - h attribute
 - m entity
 - e relationship type
 - c cardinality constraint
 - g degree
 - a identifier
 - f entity type
 - k ternary
 - 1 bill-of-materials