


explain the following term briefly

- 1 Attribute : a property or description of an entity.
- 2 Domain : a set of Possible values for an attribute.
- 3 Entity : an object in the real world that is distinguishable from other objects.
- 4 Relationship : an association among two or more entities
- 5 Entity Set : A collection of similar entities
- 6 Relationship Set : a collection of similar relationships.
- 7 One-to-many relationship : a Key constraint that indicates that one entity can be associated with many of another entity.
- 8 Many-to-many relationship : a Key constraint that indicates that many of one entity can be associated with many of another entity.

~~Entity Set~~ \Rightarrow  Maximum Number of Relationships
an entity can participate in

Possible Cardinality

Cardinality Ratio :

1 - 1 \Rightarrow one-to-one
1 - M \Rightarrow one-to-many
M - N \Rightarrow many-to-many

9 Participation : a Participation constraint determines whether Relationships must involve certain entities

* Total Participation : every entity participates in at least one Relationship with another entity

10 Overlap constraint : determines whether or not two Subclasses can contain the same entity

11 Covering constraint : determines where the entities in the subclasses collectively include all entities in the superclass

12 Weak entity set : an entity cannot be identified uniquely without considering some Primary Key attributes of another identifying owner entity
→ don't have key attributes of their owner

13 Aggregation : a feature of the entity relationship model that allows the relationship set to participate in another relationship set.

14 Role indicator : if any entity set plays more than one role, Role indicators describe the different purpose in the relationship.