1.Models an enterprise as a collection of entities and relationships

2.The ER data model was developed to facilitate database design by allowing specification of an enterprise schema that represents the overall logical structure of a database.

3.The ER model is very useful in mapping the meanings and interactions of real-world enterprises onto a conceptual schema. Because of this usefulness, many database-design tools draw on concepts from the ER model.

4. An entity is an object that exists and is distinguishable from other objects

5. An entity set is a set of entities of the same type that share the same properties.

Example: set of all persons, companies, trees, holiday

6. Relationship: an association among several entities

7. A relationship is an association among several entities

Example:

44553 (Peltier) advisor 22222 (Einstein)

student entity relationship set instructor entity

8. An attribute can also be associated with a relationship set i.e. descriptive attribute

A weak entity type is represented by a double rectangle.

The participation of weak entity type is always total.

The relationship between weak entity type and its identifying strong entity type is called identifying relationship and it is represented by double diamond.