What is the purpose of an associated entity?

When you require a relationship to be involved in a relationship, you employ associative entities. We'd use only a diamond for a typical many-to-many link between Student and Course. However, if we want Enrollment to be associated with Teacher, we can make Enrollment an associative entity.

What is the ER model, and can you explain it with an example?

Real-world things are represented using an ER model. An entity is a creature or object in the real world that can be distinguished from its surroundings. Each employee in a company, for example, is a separate entity.

In a database, what is an ER diagram?

An entity relationship diagram (ERD), often called an entity relationship model, is a graphical depiction of relationships between people, objects, places, concepts, and events in an information technology (IT) system.

Why is it recommended that every ternary relationship be converted into an associative entity?

Step 1:

Ternary relationship: A ternary relationship is a relationship that exists simultaneously between instances of three different entity kinds, each having its own set of attributes.

Associative entity: An associative entity is a type of entity that connects instances of one or more entity types and has a unique property that describes the relationship between those instances.

Step 2:

To more effectively describe participation limits, it is best to convert a ternary connection to an associative entity. To begin, we establish a new associative relationship. The three primary key properties for the participating entities make up the relation's default primary key (sometimes additional attributes are required to form a unique primary key)

These properties then serve as foreign keys, referencing the specific primary keys of the entity types involved. Any associative entity type attributes become attributes of the new relation.