**A relationship is a connection between two types of entities. In the case of a many-to-many relationship, both sides can relate to multiple instances of the other side.**

Note that it's possible for entity types to be in a relationship with themselves. Think about the example of modeling family trees: Every node is a person, so if we talk about the parent-child relationship, both participants will be a person.

However, it doesn't make such a difference whether we talk about a relationship between single or multiple entity types. Since it's easier to think about relationships between two different entity types, we'll use that to illustrate our cases.

Let's take the example of students marking the courses they like.

A student can like **many** courses, and **many** students can like the same course:

Table

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