Data types of measurements

One to many relationship

* A teacher can teach multiple classes, but the course would not have the same relationship with the teacher. Therefore, for each record in a Teachers table, there could be many records in the Courses table.
* A car maker makes many different models, but a particular car model is built only by a single car maker.
* A parent record can have many child records, but a child record belongs to one and only one parent record. Those relationships are defined through data. A parent record has a primary key that is assigned when a record is created. A child record displays part of the DNA of its parent by carrying the unique parent ID in a foreign key field. When the child’s foreign key value matches the parent’s primary key value we have a link between those records.

Many-to-Many Database Relationships

In a relational database, two tables have a many-to-many relationship if each row in one table can link to multiple rows in the other table, and vice versa. For example, a table of songs and a table of artists would likely have a many-to-many relationship because songs can have multiple artists and artists can have multiple songs.