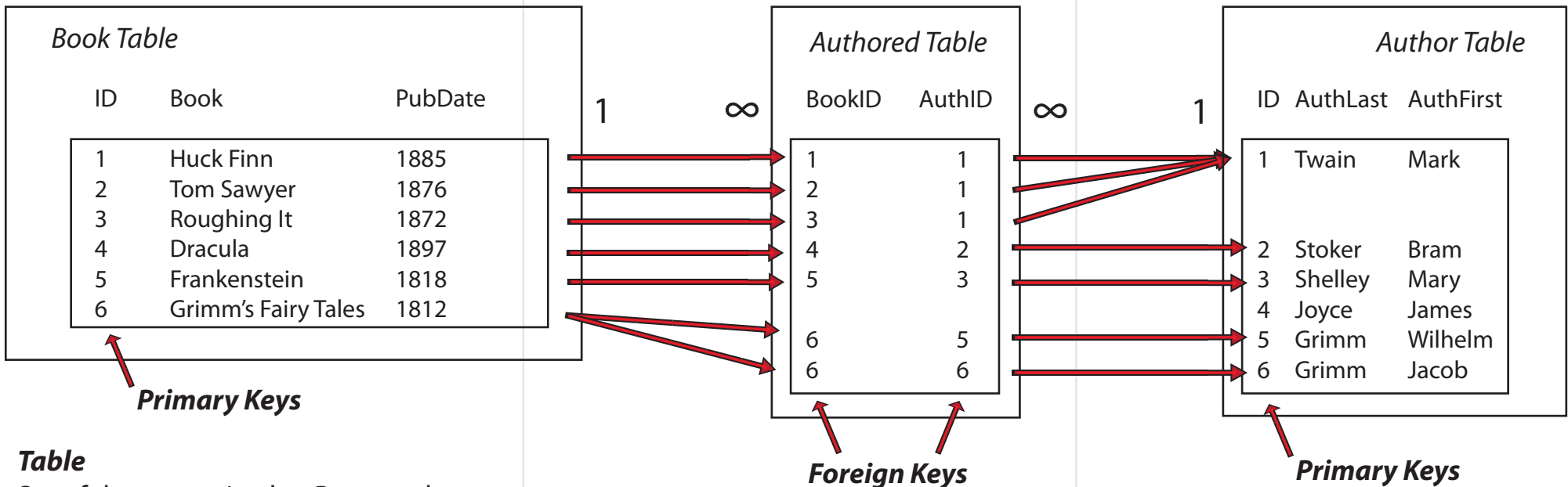


A One to Many Relationship can be used with a second One to Many Relationship to express a Many to Many Relationship.



Table

Set of data organized as Rows and Columns

Record

Set of values describing a specific item, appearing as a row in a table.

Field

A name describing a value, appearing as a column in a database table.

Primary Key

A field that uniquely identifies each record in a table.

Foreign Key

A field identifying a key for a different record (commonly in a different table).

How can we accurately represent the book Grimm's Fairy Tales if we can only have one Author?

We want to show a many to many relationship between Authors and Books.

We create a new table called Authored that acts as a bridge or association table between Author and Book.

Each combination of Book and Author will now have a record in the Authored Table, allowing multiple combinations of books and authors.

A relational database cannot contain a many to many relationship, so the Authored Table has two one to many relationships.

One Book can have **Many** Authored records.

One Author can have **Many** Authored records.