# **Library Management System**

**Identify Entities and Relationships:**

**Entities:**

* Books
* Authors
* Members
* Loans

**Relationships:**

* A book can have one or more authors (many-to-many)
* A member can borrow many books (one-to-many)
* A book can be loaned many times (one-to-many)

**Define primary and foreign keys:**

**Primary key:**

It is a column or set of columns in a table that uniquely identifies each row. (a unique id) There is only one primary key and it should be not null.

**Foreign key:**

A foreign key is a column or set columns in a table that refers to the primary key. There can be multiple foreign keys. Foreign key can have duplicate and null values.