# Library-ERM

A library manages books and journals.

Each book is published by a publishing house, there may be several copies of each book, which can also be borrowed by customers.

There are published issues of the journals, these are only available once, a loan is not possible.

The articles published in the journals as well as the books should be managed in such a way that comfortable functions for information retrieval are possible:

In addition to the assignment of a subject area, there should also be a keyword, whereby the relevance of each assigned keyword is important. Synonymous keywords should be recorded.

Articles and books can each have several authors. Certain books can each have one book as a translation template, articles can reference each other:

Each borrowing is handled by one employee, and one employee is also responsible for returning the book copy.

Customers can also reserve books, each reservation usually results in a loan.

The books and magazines are stored on shelves.

A journal is placed on a shelf, and each shelf is assigned a subject area for the storage of the books.

Version 4

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Book** | **Articles** | **Journals** | **Paper** | **Publisher** | **Keyword** | **Employee** | **Customer** | **Shelf** | **Author** | **Loan** |
| ID | ID | ID | ID | ID | ID | ID | ID | ID | ID | ID |
| Translation template | Is reference | Author\_name | Can loan | Publishing House | Synonymous | borrow | Customer\_ID | Subject area | Author\_name | check |
|  |  |  | piece |  |  | returning | Reserve | storage space |  | Customer\_ID |
|  |  |  |  |  |  | check | Name |  |  | piece |
|  |  |  |  |  |  |  | Address |  |  | return date |
|  |  |  |  |  |  |  | Phone number |  |  |  |
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