

# Project: Database Driven Application

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Subject: Project Topic and Business Rules

## Topic:

Library Database

## Overview:

This database stores information for books and authors. User can browse and manage information of book and author.

## Candidate Tables:

Book, Author, Book\_Author, Category, Publisher

## Business rule

001 – Authors of book

Description: A book must have one author at least. A book can only have up to 3 authors.

Category: Structural Fact

Type: Static

002 – Books of author

Description: Author can have zero or many books.

Category: Structural Fact

Type: Static

### 003 – Search book

Description: A user can search books by keywords such as title, author, Category, released date, publisher. If the user selects more than one search option, the result that satisfied all criteria will be displayed.

Category: Structural Fact

Type: Dynamic

### 004 – Book Category

Description: Each book belongs to a category (e.g. Fiction, History, Novel). Several books can be in one category.

Category: Structural Fact

Type: Static

### 005 – Publisher

Description: Publisher can publish many books and each book is published by one publisher.

Category: Structural Fact

Type: Static

### 006 – Edition of book

Description: Books exist in various editions. The same book (title, edition, publication date) cannot be added to the database.

Category: Structural Fact

Type: Static