

Web Development 2



Departamento de Lenguajes y
Sistemas Informáticos



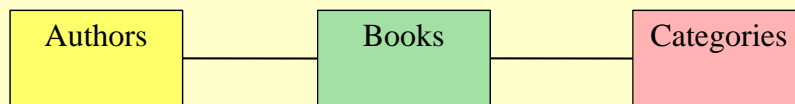
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Project

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Data model

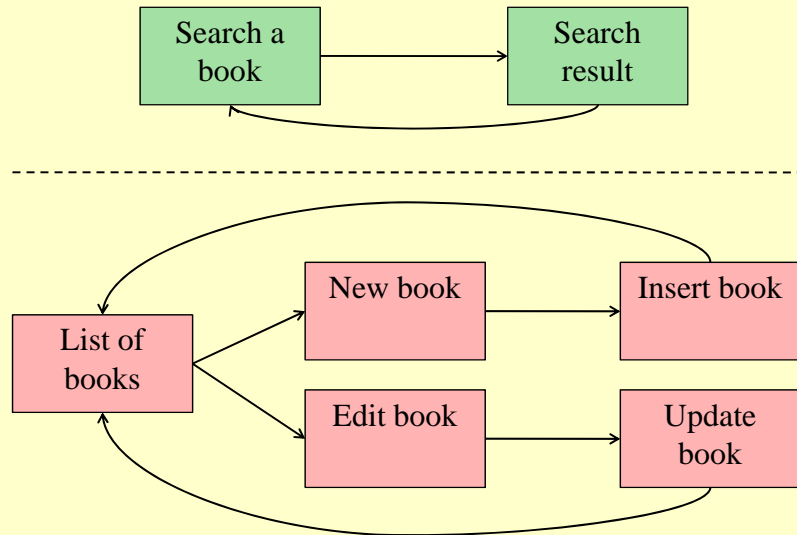
- Public library information system:
 - books (id, title, abstract, author (FK), category (FK), publisher, year)
 - authors (id, name)
 - categories (id, name)



Data model

- Example:
 - Books: (123, "Hamlet", "Hamlet is the king of Denmark, ...", 21, 3, "Oxford UP", 2007)
 - Authors: (21, "William Shakespere")
 - Categories: (3, "Drama theater")

Navigation diagram



Presentation diagram

Search a book

PUBLIC LIBRARY

Search:

Title Author Publisher

The presentation diagram shows a search form for a public library. It includes a text input field for the search query, three radio buttons to select the search criteria (Title, Author, or Publisher), and a 'Search' button.

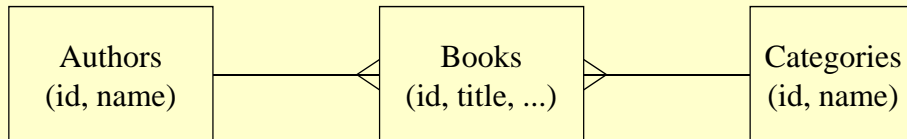
Presentation diagram

Search result

	PUBLIC	LIBRAY
TITLE	AUTHOR	PUBLISHER
xxxxx	aaaa aa	bbbb bb
yyyyy	ccc ccc	dd dddd
zzz zz	eeee eee	ff fff fff

Creating the Database

DB Schema



- Table authors, 2 attributes: id, name.
- Table categories, 2 fields: id, name.
- Table book, 7 fields: id, title, abstract, author, category, publisher and year.

Step by step

- Connect to phpMyAdmin:
 - <http://localhost/phpmyadmin/index.php>
- Create a new DB: Library.
- Create a new table: authors, with 2 fields.
- Field: id, int, not null, auto increment, key
- Field: name, varchar, 250, not null
- Final Script:

```
Create table `library`.`authors` (  
  `id` int not null, auto increment primary key,  
  `name` varchar(250) not null) engine=myisam
```

Step by step

- Create a new table: categories, with 2 fields.
- Field: id, int, not null, auto increment, key
- Field: name, varchar, 250, not null
- Final Script:
Create table `library`.`categories` (
`id` int not null, auto increment primary key,
`name` varchar(250) not null) engine=myisam

Step by step

- Create third table: books, 7 fields.
- id, int, not null, auto increment, key
- title, varchar, 250, not null
- Abstract, varchar, 2000, null
- Author, int, not null
- Category, int, not null
- Publisher, varchar, 250, null
- Year, int, null
- Table Script:

```
CREATE TABLE `library`.`books` ( `id` INT NOT NULL AUTO_INCREMENT PRIMARY
KEY ,
`title` VARCHAR( 250 ) NOT NULL ,
`abstract` VARCHAR( 2000 ) NULL ,
`author` INT NOT NULL ,
`category` INT NOT NULL ,
`publisher` VARCHAR( 250 ) NULL ,
`year` INT NULL
) ENGINE = MYISAM
```

Finally

- Put some data in tables authors and categories.
 - Remember ids
- Insert data in table books.
 - In fields 'author' and 'category' you must to put the identifier, not the name.