

exercises

```
wget http://cdn.cs50.net/2016/  
summer/seminars/sql/sql.zip
```

0. homepage

0.0 books

In `books()`,

Generate a list of all of the books in the library, with titles and author ID.

0.1 author

In `author($author_id)`,

Get the first and last name of the author who's ID is `$author_id`.

I. inventory

1.0 total

In `book_count()`,

Query the database for the total number of books in the library.

I.I distinct

In `distinct_book_count()`,

Query the database for the total number of distinct books in the library.

1.2 out

In `currently_out()`,

Query the database for the total number of books currently checked out.

2. catalog

2.0 anthology

In `books_by_author($author_last)`,

Get a list of titles written by author, given the last name `$author_last`.

2.1 suggestion

In `suggest($books)`,

Pick a random book out of the array of books provided.

3. overdue

3.0 borrowed

In `checked_out($first_name, $last_name)`,

Queries database for number of checked out books for member with first name `$first_name` and last name `$last_name`.

3.1 late

In `late($first_name, $last_name, $today)`,

Queries database for number of overdue books for member with first name `$first_name` and last name `$last_name`, as of date `$today`.

3.2 eligible

In `approve_checkout($checked_out, $overdue, $num)`,

Returns true if a member with `$checked_out` number of books out and `$overdue` overdue books can check out `$num` books.

If any books are overdue, the person cannot check out books. A person can have a maximum of 5 books checked out at any given time.