

# Problem 3570: Find Books with No Available Copies

## Problem Information

Difficulty: Easy

Acceptance Rate: 53.09%

Paid Only: No

Tags: Database

## Problem Description

Table: `library\_books`

```
+-----+-----+ | Column Name | Type | +-----+-----+ | book_id | int | | title | varchar | | author | varchar | | genre | varchar | | publication_year | int | | total_copies | int |
+-----+-----+ book_id is the unique identifier for this table. Each row contains information about a book in the library, including the total number of copies owned by the library.
```

Table: `borrowing\_records`

```
+-----+-----+ | Column Name | Type | +-----+-----+ | record_id | int | | book_id | int | | borrower_name | varchar | | borrow_date | date | | return_date | date |
+-----+-----+ record_id is the unique identifier for this table. Each row represents a borrowing transaction and return_date is NULL if the book is currently borrowed and hasn't been returned yet.
```

Write a solution to find **all books** that are **currently borrowed (not returned)** and have **zero copies available** in the library.

\* A book is considered **currently borrowed** if there exists a **\*\*\*\*** borrowing record with a **NULL** `return\_date`

Return the result table ordered by current borrowers in **descending** order, then by book title in **ascending** order.

The result format is in the following example.

**Example:**

**Input:**

library\_books table:

book_id	title	author	genre	publication_year	total_copies
1	The Great Gatsby	F. Scott	Fiction	1925	3
2	To Kill a Mockingbird	Harper Lee	Fiction	1960	3
3	1984	George Orwell	Dystopian	1949	1
4	Pride and Prejudice	Jane Austen	Romance	1813	2
5	The Catcher in the Rye	J.D. Salinger	Fiction	1951	1
6	Brave New World	Aldous Huxley	Dystopian	1932	4

borrowing\_records table:

record_id	book_id	borrower_name	borrow_date	return_date
1	1	Alice Smith	2024-01-15	NULL
2	1	Bob Johnson	2024-01-20	NULL
3	2	Carol White	2024-01-10	2024-01-25
4	3	David Brown	2024-02-01	NULL
5	4	Emma Wilson	2024-01-05	NULL
6	5	Frank Davis	2024-01-18	2024-02-10
7	1	Grace Miller	2024-02-05	NULL
8	6	Henry Taylor	2024-01-12	NULL
9	2	Ivan Clark	2024-02-12	NULL
10	2	Jane Adams	2024-02-15	NULL

**Output:**

book_id	title	author	genre	publication_year	current_borrowers
1	The Great Gatsby	F. Scott	Fiction	1925	3
3	1984	George Orwell	Dystopian	1949	1

**Explanation:**

\* \*\*The Great Gatsby (book\_id = 1):\*\* \* Total copies: 3 \* Currently borrowed by Alice Smith, Bob Johnson, and Grace Miller (3 borrowers) \* Available copies: 3 - 3 = 0 \* Included because available\_copies = 0 \* \*\*1984 (book\_id = 3):\*\* \* Total copies: 1 \* Currently borrowed by David

Brown (1 borrower) \* Available copies:  $1 - 1 = 0$  \* Included because available\_copies = 0 \*  
\*\*Books not included:\*\* \* To Kill a Mockingbird (book\_id = 2): Total copies = 3, current  
borrowers = 2, available = 1 \* Pride and Prejudice (book\_id = 4): Total copies = 2, current  
borrowers = 1, available = 1 \* The Catcher in the Rye (book\_id = 5): Total copies = 1, current  
borrowers = 0, available = 1 \* Brave New World (book\_id = 6): Total copies = 4, current  
borrowers = 1, available = 3 \*\*\*Result ordering:\*\* \* The Great Gatsby appears first with 3  
current borrowers \* 1984 appears second with 1 current borrower

Output table is ordered by current\_borrowers in descending order, then by book\_title in  
ascending order.

## Code Snippets

### MySQL:

```
# Write your MySQL query statement below
```

### MS SQL Server:

```
/* Write your T-SQL query statement below */
```

### PostgreSQL:

```
-- Write your PostgreSQL query statement below
```