

## Learn with Ankit Bansal



**100 Coding Problems**



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**100 DAY CODING PROBLEMS**

### Step - 1 : Problem Statement

 **Problem Statement:**

## 8 - LIBRARY BORROWING HABITS

Imagine you're working for a library and you're tasked with generating a report on the borrowing habits of patrons. You have two tables in your database: Books and Borrowers.

Write an SQL to display the name of each borrower along with a comma-separated list of the books they have borrowed in alphabetical order, display the output in ascending order of Borrower Name.

 **Difficult Level : EASY**

# NAMASTE SQL - DAY 3

## Step - 2 : Identifying The Input Data And Expected

### INPUT

Borrowers		
BORROWERID	BORROWERNAME	BOOKID
1	Alice	1
2	Bob	2
3	Charlie	3
4	David	4
5	Eve	5
6	Frank	6
7	Grace	7
1	Alice	5
2	Bob	6
3	Charlie	7
4	David	8
6	Frank	10
8	Harry	2


## NAMASTE SQL - DAY 3

books		
BOOKID	BOOKNAME	GENRE
1	The Great Gatsby	Fiction
2	To Kill a Mockingbird	Fiction
3	1984	Fiction
4	The Catcher in the Rye	Fiction
5	Pride and Prejudice	Romance
6	Romeo and Juliet	Romance
7	The Notebook	Romance
8	The Hunger Games	Science Fiction
9	Dune	Science Fiction
10	Foundation	Science Fiction

### OUTPUT

BORROWERNAME	RESULT
Alice	Pride and Prejudice, The Great Gatsby
Bob	Romeo and Juliet, To Kill a Mockingbird
Charlie	1984, The Notebook
David	The Catcher in the Rye, The Hunger Games
Eve	Pride and Prejudice
Frank	Foundation, Romeo and Juliet
Grace	The Notebook
Harry	To Kill a Mockingbird
Ivy	1984

### Step - 3 : Writing the sql query to solve the



```
SELECT BN.BorrowerName
       ,GROUP_CONCAT(B.BookName ORDER BY B.BookName SEPARATOR ',')
FROM Borrowers BN
JOIN Books B ON BN.BookID = B.BookID
GROUP BY BN.BorrowerName
ORDER BY BorrowerName ASC
```



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