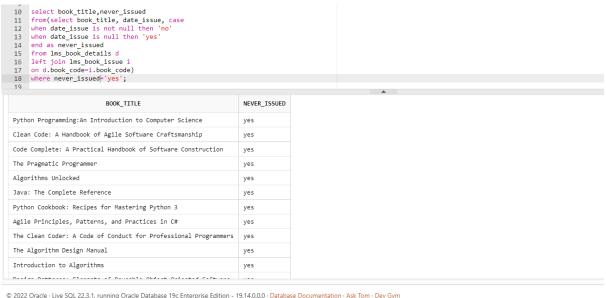Q1) Write a query to show the category with the greatest number of books. (For Example: There are different category of books like JAVA, PYTHON, C#)

```
 2
 3  with highest_no_of_books as(
 4  select category, count(*) as book_count from lms_book_details
 5  group by category)
 6  select * from highest_no_of_books
 7  where book_count in (select max(book_count) from highest_no_of_books);
```

CATEGORY	BOOK_COUNT
JAVA	7

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Q2) Write a query to show this output. List of the books that are available in library and never issued (Hint : use join function and case function)

```
10  select book_title,never_issued
11  from(select book_title, date_issue, case
12  when date_issue is not null then 'no'
13  when date_issue is null then 'yes'
14  end as never_issued
15  from lms_book_details d
16  left join lms_book_issue i
17  on d.book_code=i.book_code)
18  where never_issued='yes';
19
```

BOOK_TITLE	NEVER_ISSUED
Python Programming:An Introduction to Computer Science	yes
Clean Code: A Handbook of Agile Software Craftsmanship	yes
Code Complete: A Practical Handbook of Software Construction	yes
The Pragmatic Programmer	yes
Algorithms Unlocked	yes
Java: The Complete Reference	yes
Python Cookbook: Recipes for Mastering Python 3	yes
Agile Principles, Patterns, and Practices in C#	yes
The Clean Coder: A Code of Conduct for Professional Programmers	yes
The Algorithm Design Manual	yes
Introduction to Algorithms	yes

Q3) Write queries to get output as per required:

i) Write a query to count the number of permanent members vs temporary members

```
20  select MEMBERSHIP_STATUS,count (*) from lms_members
21  group by MEMBERSHIP_STATUS;
22
23
```

MEMBERSHIP_STATUS	COUNT(*)
Temporary	12
Permanent	13

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2 rows selected.

ii) Write a query to display the average price of different book categories

```
23  select category, avg(price) as avg_price from lms_book_details
24  group by category;
25
26  |
27
```

CATEGORY	AVG_PRICE
JAVA	701.42857142857142857142857142857142857
C	500
FUNDAMENTALS	1850
Python	619
C#	643.33333333333333333333333333333333333333
ALGORITHMS	791.5
DATA STRUCTURES	780

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iii) Write a query to display the total fine amount paid by all members

```
25
26  select sum(fine_amount) from LMS_FINE_DETAILS;
27
```

SUM(FINE_AMOUNT)
595

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