Functions and queries

1/05/2023

Q1) Write a query to show the category with the greatest number of books.

Ans.

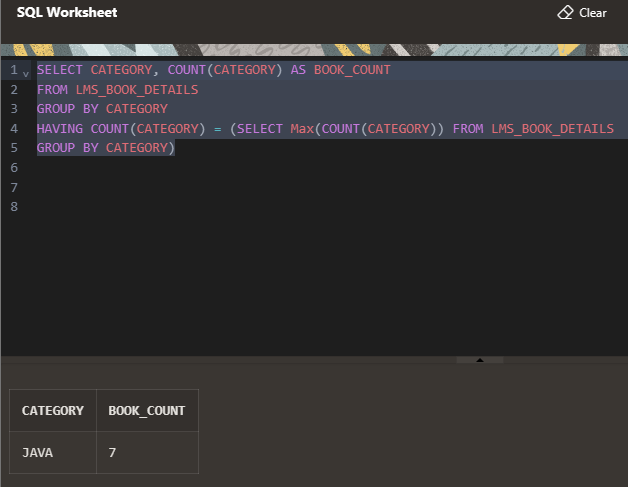
SELECT CATEGORY, COUNT(CATEGORY) AS BOOK\_COUNT

FROM LMS\_BOOK\_DETAILS

GROUP BY CATEGORY

HAVING COUNT(CATEGORY) = (SELECT Max(COUNT(CATEGORY)) FROM LMS\_BOOK\_DETAILS

GROUP BY CATEGORY)



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)

Ans-Attempt 1

select \*

from LMS\_book\_issue AS I

FULL OUTER join LMS\_book\_details AS D

ON I.MEMBER\_ID = D.MEMBER\_ID;

ATTEMPT 2

SELECT \*

FROM LMS\_book\_issue AS I

FULL OUTER JOIN LMS\_book\_details AS D

ON I.MEMBER\_ID = D.MEMBER\_ID

where I.DATE\_ISSUE IS NULL;

attempt 3

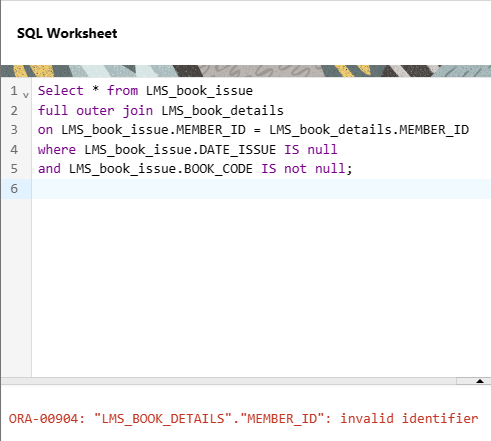
Select \* from LMS\_book\_issue

full outer join LMS\_book\_details

on LMS\_book\_issue.MEMBER\_ID = LMS\_book\_details.MEMBER\_ID

where LMS\_book\_issue.DATE\_ISSUE IS null

and LMS\_book\_issue.BOOK\_CODE IS not null;



Attempt 4

SELECT \*

FROM LMS\_book\_issue

FULL OUTER JOIN LMS\_book\_details

ON LMS\_book\_issue.BOOK\_CODE = LMS\_book\_details.BOOK\_CODE

WHERE LMS\_book\_issue.DATE\_ISSUE IS NULL

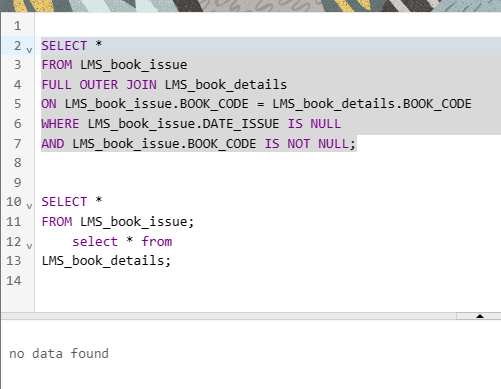
AND LMS\_book\_issue.BOOK\_CODE IS NOT NULL;

SELECT \*

FROM LMS\_book\_issue;

select \* from

LMS\_book\_details;



Attempt 5.

SELECT LMS\_book\_details.BOOK\_TITLE,

CASE

WHEN LMS\_book\_issue.BOOK\_CODE IS NULL THEN 'Available'

ELSE 'Not Available'

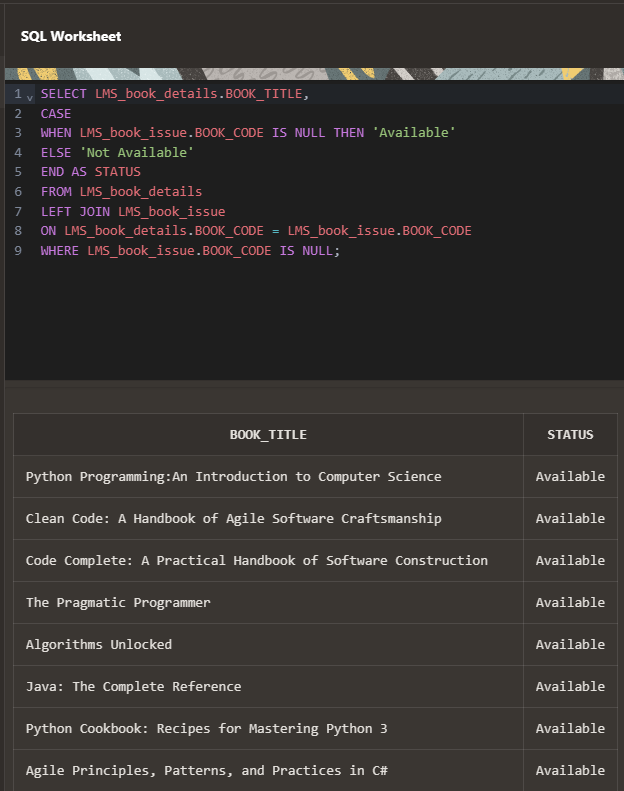
END AS STATUS

FROM LMS\_book\_details

LEFT JOIN LMS\_book\_issue

ON LMS\_book\_details.BOOK\_CODE = LMS\_book\_issue.BOOK\_CODE

WHERE LMS\_book\_issue.BOOK\_CODE IS NULL;



Q3) Write queries to get output as per required:

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

temporary members.

method

Ans.

method 1.

SELECT MEMBERSHIP\_STATUS, COUNT(\*) AS COUNT

FROM LMS\_MEMBERS

GROUP BY MEMBERSHIP\_STATUS;



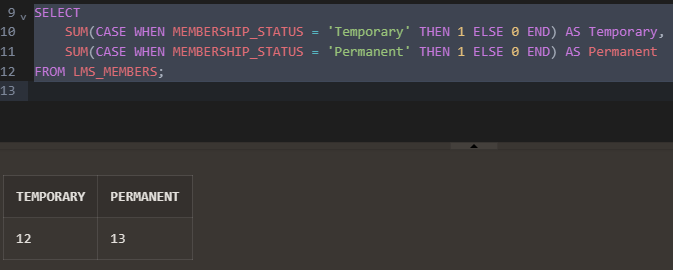
Method 2.

SELECT

SUM(CASE WHEN MEMBERSHIP\_STATUS = 'Temporary' THEN 1 ELSE 0 END) AS Temporary,

SUM(CASE WHEN MEMBERSHIP\_STATUS = 'Permanent' THEN 1 ELSE 0 END) AS Permanent

FROM LMS\_MEMBERS;



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

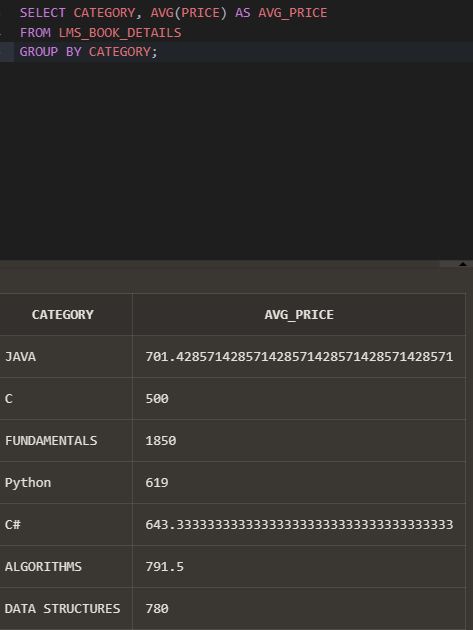
categories.

Ans.

SELECT CATEGORY, AVG(PRICE) AS AVG\_PRICE

FROM LMS\_BOOK\_DETAILS

GROUP BY CATEGORY;



Note

round comes first and then avg



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

members

Ans-

SELECT SUM(FINE\_AMOUNT) AS total\_fine\_amoun FROM LMS\_FINE\_DETAILS;

