**Complex Questions:**

Problem # 1:

Write a query to display the book code, book title and supplier name of the supplier who has supplied maximum number of books. For example, if “ABC Store” supplied 3 books, “LM Store” has supplied 2 books and “XYZ Store” has supplied 1 book. So “ABC Store” has supplied maximum number of books, hence display the details as mentioned below. Example: BOOK\_CODE BOOK\_TITLE SUPPLIER\_NAME BL000008 Easy Reference for Java ABC STORE BL000001 Easy Reference for C ABC STORE BL000003 Easy Reference for VB ABC STORE

SQL> select BOOK\_CODE,BOOK\_TITLE,SUPPLIER\_NAME from LMS\_BOOK\_DETAILS B inner join LMS\_SUPPLIERS\_DETAILS S on B.SUPPLIER\_ID = S.SUPPLIER\_ID where S.SUPPLIER\_ID in (select SUPPLIER\_ID from LMS\_BOOK\_DETAILS group by SUPPLIER\_ID having COUNT(SUPPLIER\_ID)=(select MAX(cnt) from (select COUNT(\*) as cnt from LMS\_BOOK\_DETAILS group by SUPPLIER\_ID)as T));

Problem # 2:

Write a query to display the member id, member name and number of remaining books he/she can take with “REMAININGBOOKS” as alias name. Hint: Assuming a member can take maximum 3 books. For example, Ramesh has already taken 2 books; he can take only one book now. Hence display the remaining books as 1 in below format. Example: MEMBER\_ID MEMBER\_NAME REMAININGBOOKS LM001 RAMESH 1 LM002 MOHAN 3

SQL> select m.MEMBER\_ID,MEMBER\_NAME,T.cb as REMAINING\_BOOKS from LMS\_MEMBERS m inner join (select a.member\_id,COUNT(i.MEMBER\_ID) as cb from LMS\_MEMBERS a left outer join LMS\_BOOK\_ISSUE i on a.MEMBER\_ID= i.MEMBER\_ID group by a.MEMBER\_ID)T on T.MEMBER\_ID=m.MEMBER\_ID;

MEMBER\_ID MEMBER\_NAME REMAINING\_BOOKS

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LM002 ABDHUL 1

LM003 GAYAN 1

LM004 RADHA 1

LM006 MOHAN 0

LM001 AMIT 1

LM005 GURU 1

6 rows selected.

Problem # 3

Write a query to display the supplier id and supplier name of the supplier who has supplied minimum number of books. For example, if “ABC Store” supplied 3 books, “LM Store” has supplied 2 books and “XYZ Store” has supplied 1 book. So “XYZ Store” has supplied minimum number of books, hence display the details as mentioned below.

Example: SUPPLIER\_ID SUPPLIER\_NAME S04 XYZ STOR

SQL> select S.SUPPLIER\_ID,SUPPLIER\_NAME from LMS\_BOOK\_DETAILS B inner join LMS\_SUPPLIERS\_DETAILS S on B.SUPPLIER\_ID = S.SUPPLIER\_ID where S.SUPPLIER\_ID in (select SUPPLIER\_ID from LMS\_BOOK\_DETAILS group by SUPPLIER\_ID having COUNT(SUPPLIER\_ID)=(select MIN(cnt) from (select COUNT(\*) as cnt from LMS\_BOOK\_DETAILS group by SUPPLIER\_ID)as T));