**Average Questions**

Problem # 1:

Write a query to display the member id, member name of the members, book code and book title of the books taken by them.

SQL> SELECT m.MEMBER\_ID, m.MEMBER\_NAME, m.CITY, SUM(f.FINE\_AMOUNT) AS FINE FROM LMS\_MEMBERS m INNER JOIN LMS\_BOOK\_ISSUE i ON m.MEMBER\_ID = i.MEMBER\_ID INNER JOIN LMS\_FINE\_DETAILS f ON i.FINE\_RANGE = f.FINE\_RANGE GROUP BY m.MEMBER\_ID, m.MEMBER\_NAME, m.CITY

2 ;

MEMBER\_ID MEMBER\_NAME CITY FINE

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LM004 RADHA CHENNAI 20

LM003 GAYAN CHENNAI 20

LM001 AMIT CHENNAI 20

LM005 GURU BANGALORE 50

LM002 ABDHUL DELHI 50

Problem # 2:

Write a query to display the total number of books available in the library with alias name “NO\_OF\_BOOKS\_AVAILABLE” (Which is not issued). Hint: The issued books details are available in the LMS\_BOOK\_ISSUE table.

SQL> SELECT COUNT(t1.BOOK\_CODE)AS NO\_OF\_BOOKS\_AVAILABLE FROM LMS\_BOOK\_DETAILS t1 LEFT JOIN LMS\_BOOK\_ISSUE t2 ON t1.BOOK\_CODE = t2.BOOK\_CODE WHERE t2.BOOK\_CODE IS NULL

2 ;

NO\_OF\_BOOKS\_AVAILABLE

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3

Problem # 3:

Write a query to display the member id, member name, fine range and fine amount of the members whose fine amount is less than 100.

SQL> SELECT T1.MEMBER\_ID,(SELECT MEMBER\_NAME FROM LMS\_MEMBERS WHERE MEMBER\_ID=T1.MEMBER\_ID)AS MEMBER\_NAME,(SELECT T2.FINE\_RANGE FROM LMS\_MEMBERS WHERE MEMBER\_ID=T1.MEMBER\_ID)AS FINE\_RANGE,(SELECT FINE\_AMOUNT FROM LMS\_FINE\_DETAILS T2 WHERE FINE\_RANGE= T1.FINE\_RANGE)AS FINE\_AMOUNT FROM LMS\_BOOK\_ISSUE T1 LEFT JOIN LMS\_FINE\_DETAILS T2 ON T1.FINE\_RANGE = T2.FINE\_RANGE WHERE T2.FINE\_AMOUNT < 100

2 ;

MEMBER\_ID MEMBER\_NAME FIN FINE\_AMOUNT

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LM001 AMIT R1 20

LM002 ABDHUL R2 50

LM004 RADHA R1 20

LM005 GURU R2 50

LM003 GAYAN R1 20

Problem # 4:

Write a query to display the book code, book title and availability status of the ‘JAVA’ books whose edition is "6”. Show the availability status with alias name “AVAILABILITYSTATUS”. Hint: Book availability status can be fetched from “BOOK\_ISSUE\_STATUS” column of LMS\_BOOK\_ISSUE table.

SQL> SELECT COUNT(t1.BOOK\_CODE)AS NO\_OF\_BOOKS\_AVAILABLE FROM LMS\_BOOK\_DETAILS t1 LEFT JOIN LMS\_BOOK\_ISSUE t2 ON t1.BOOK\_CODE = t2.BOOK\_CODE WHERE t2.BOOK\_CODE IS NULL

2 ;

NO\_OF\_BOOKS\_AVAILABLE

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3

Problem # 5:

Write a query to display the book code, book title and rack number of the books which are placed in rack 'A1' and sort by book title in ascending order.

SQL> SELECT BOOK\_CODE,BOOK\_TITLE,RACK\_NUM FROM LMS\_BOOK\_DETAILS where RACK\_NUM=’A1′ ORDER BY BOOK\_TITLE ASC;

BOOK\_CODE BOOK\_TITLE RAC

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BL000001 Java How To Do Program A1

BL000003 Java How To Do Program A1

BL000005 Java How To Do Program A1

BL000004 Java: The Complete Reference A1

BL000006 Java: The Complete Reference A1

BL000002 Java: The Complete Reference A1

6 rows selected.

Problem # 6:

Write a query to display the member id, member name, due date and date returned of the members who has returned the books after the due date. Hint: Date\_return is due date and Date\_returned is actual book return date.

SQL> SELECT MEMBER\_ID,(SELECT MEMBER\_NAME FROM LMS\_MEMBERS WHERE MEMBER\_ID=T1.MEMBER\_ID)AS MEMBER\_NAME,DATE\_RETURN AS DUE\_DATE,DATE\_RETURNED FROM LMS\_BOOK\_ISSUE T1 WHERE DATE\_RETURN < DATE\_RETURNED;

MEMBER\_ID MEMBER\_NAME DUE\_DATE DATE\_RETU

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LM002 ABDHUL 06-JUN-12 01-NOV-12

LM005 GURU 16-AUG-12 19-AUG-12

LM003 GAYAN 06-MAY-12 05-OCT-12

Problem # 7:

Write a query to display the member id, member name and date of registration who have not taken any book.

SQL> SELECT T1.MEMBER\_ID,MEMBER\_NAME,DATE\_REGISTER FROM LMS\_MEMBERS T1 LEFT JOIN LMS\_BOOK\_ISSUE T2 ON T1.MEMBER\_ID = T2.MEMBER\_ID WHERE T2.MEMBER\_ID IS NULL;

MEMBER\_ID MEMBER\_NAME DATE\_REGI

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LM006 MOHAN 12-APR-12

Problem # 8:

Write a Query to display the member id and member name of the members who has not paid any fine in the year 2012.

SQL> select t1.MEMBER\_ID,(select t2.MEMBER\_NAME from LMS\_MEMBERS t2 where t1.MEMBER\_ID=t2.MEMBER\_ID)as MEMBER\_NAME from LMS\_BOOK\_ISSUE t1 where t1.DATE\_RETURN >=t1.DATE\_RETURNED and year(t1.DATE\_RETURNED)=2012;

Problem # 9:

Write a query to display the date on which the maximum numbers of books were issued and the number of books issued with alias name “NOOFBOOKS”.

SQL> select DATE\_ISSUE,count(DATE\_ISSUE) as NO\_OF\_BOOKS from LMS\_BOOK\_ISSUE group by DATE\_ISSUE having COUNT(DATE\_ISSUE)=(select MAX(counted) from (select COUNT(DATE\_ISSUE) as counted from LMS\_BOOK\_ISSUE group by DATE\_ISSUE) as t);

Problem # 10:

Write a query to list the book title and supplier id for the books authored by “Herbert Schildt" and the book edition is 5 and supplied by supplier ‘S01’.

SQL> select BOOK\_TITLE,SUPPLIER\_ID from LMS\_BOOK\_DETAILS where AUTHOR='Herbert Schildt' and BOOK\_EDITION='5' and SUPPLIER\_ID='S01';

BOOK\_TITLE SUP

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Java: The Complete Reference S01

Problem # 11:

Write a query to display the rack number and the number of books in each rack with alias name “NOOFBOOKS” and sort by rack number in ascending order.

SQL> select RACK\_NUM,COUNT(book\_code) as NO\_OF\_BOOKS from LMS\_BOOK\_DETAILS group by RACK\_NUM;

RAC NO\_OF\_BOOKS

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A3 2

A1 6

Problem # 12:

Write a query to display book issue number, member name, date or registration, date of expiry, book title, category author, price, date of issue, date of return, actual returned date, issue status, fine amount.

SQL> Select BOOK\_ISSUE\_NO,MEMBER\_NAME,DATE\_REGISTER,DATE\_EXPIRE,BOOK\_TITLE,CATEGORY, PRICE, DATE\_ISSUE,DATE\_RETURN,DATE\_RETURNED,(select FINE\_AMOUNT from LMS\_FINE\_DETAILS f where i.FINE\_RANGE= f.FINE\_RANGE)as FINE\_AMOUNT from LMS\_BOOK\_ISSUE i,LMS\_MEMBERS m,LMS\_BOOK\_DETAILS b where i.MEMBER\_ID=m.MEMBER\_ID and b.BOOK\_CODE=i.BOOK\_CODE;

BOOK\_ISSUE\_NO MEMBER\_NAME DATE\_REGI DATE\_EXPI

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BOOK\_TITLE CATEGORY PRICE

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DATE\_ISSU DATE\_RETU DATE\_RETU FINE\_AMOUNT

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1 AMIT 20-FEB-12 02-NOV-13

Java How To Do Program JAVA 600

01-MAY-12 16-MAY-12 16-MAY-12 20

2 ABDHUL 10-APR-12 09-APR-13

Java: The Complete Reference JAVA 750

12-FEB-12 06-JUN-12 01-NOV-12 50

BOOK\_ISSUE\_NO MEMBER\_NAME DATE\_REGI DATE\_EXPI

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BOOK\_TITLE CATEGORY PRICE

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DATE\_ISSU DATE\_RETU DATE\_RETU FINE\_AMOUNT

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4 RADHA 20-APR-22 02-APR-22

Java How To Do Program JAVA 600

01-MAY-12 16-MAY-12 16-MAY-12 20

3 GAYAN 12-MAY-13 14-MAY-13

Let Us C C 500

BOOK\_ISSUE\_NO MEMBER\_NAME DATE\_REGI DATE\_EXPI

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BOOK\_TITLE CATEGORY PRICE

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DATE\_ISSU DATE\_RETU DATE\_RETU FINE\_AMOUNT

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19-APR-12 06-MAY-12 05-OCT-12 20

5 GURU 22-MAR-13 13-MAR-13

Let Us C C 500

11-JUL-12 16-AUG-12 19-AUG-12 50

Problem # 13:

Write a query to display the book code, title, publish date of the books which is been published in the month of December.

SQL> select BOOK\_CODE,BOOK\_TITLE,PUBLISH\_DATE from LMS\_BOOK\_DETAILS where MONTH(PUBLISH\_DATE)=’12’;

Problem # 14:

Write a query to display the book code, book title and availability status of the ‘JAVA’ books whose edition is "5”. Show the availability status with alias name “AVAILABILITYSTATUS”. Hint: Book availability status can be fetched from “BOOK\_ISSUE\_STATUS” column of LMS\_BOOK\_ISSUE table.

SQL> select book\_title,supplier\_id from lms\_book\_details where author like 'h%'and supplier\_id='S01'and book\_edition=5;

no rows selected