

WEEK 1

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DATE: 12-07-2025 & 13-07-2025

Table Creation:

Query:

```
CREATE TABLE LMS_MEMBERS (  
    MEMBER_ID VARCHAR(10) PRIMARY KEY,  
    MEMBER_NAME VARCHAR(30),  
    CITY VARCHAR(20),  
    DATE_REGISTER DATE,  
    DATE_EXPIRE DATE,  
    MEMBERSHIP_STATUS VARCHAR(15)  
);  
desc LMS_MEMBERS;
```

Output:

Result Grid

Filter Rows:

Export:

Wrap Cell Content:


	Field	Type	Null	Key	Default	Extra
▶	MEMBER_ID	varchar(10)	NO	PRI	NULL	
	MEMBER_NAME	varchar(30)	YES		NULL	
	CITY	varchar(20)	YES		NULL	
	DATE_REGISTER	date	YES		NULL	
	DATE_EXPIRE	date	YES		NULL	
	MEMBERSHIP_STATUS	varchar(15)	YES		NULL	


Query:


```
CREATE TABLE LMS_SUPPLIERS_DETAILS (  
    SUPPLIER_ID VARCHAR(3) PRIMARY KEY,  
    SUPPLIER_NAME VARCHAR(30),  
    ADDRESS VARCHAR(50),  
    CONTACT VARCHAR(10),  
    EMAIL VARCHAR(15)  
);  
desc LMS_SUPPLIERS_DETAILS;
```

Output:

Result Grid


Filter Rows:

Export:


Wrap Cell Content:


	Field	Type	Null	Key	Default	Extra
▶	SUPPLIER_ID	varchar(3)	NO	PRI	NULL	
	SUPPLIER_NAME	varchar(30)	YES		NULL	
	ADDRESS	varchar(50)	YES		NULL	
	CONTACT	varchar(10)	YES		NULL	
	EMAIL	varchar(15)	YES		NULL	

Query:

```
CREATE TABLE LMS_BOOK_DETAILS (  
    BOOK_CODE VARCHAR(10) PRIMARY KEY,  
    BOOK_TITLE VARCHAR(50),  
    CATEGORY VARCHAR(15),  
    AUTHOR VARCHAR(30),  
    PUBLICATION VARCHAR(30),  
    PUBLISH_DATE DATE,  
    BOOK_EDITION INT,  
    PRICE DOUBLE,  
    RACK_NUM VARCHAR(3),  
    DATE_ARRIVAL DATE,  
    SUPPLIER_ID VARCHAR(3),  
    FOREIGN KEY (SUPPLIER_ID) REFERENCES  
    LMS_SUPPLIERS_DETAILS(SUPPLIER_ID)  
);  
desc LMS_BOOK_DETAILS;
```

Output:

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	Field	Type	Null	Key	Default	Extra
▶	BOOK_CODE	varchar(10)	NO	PRI	NULL	
	BOOK_TITLE	varchar(50)	YES		NULL	
	CATEGORY	varchar(15)	YES		NULL	
	AUTHOR	varchar(30)	YES		NULL	
	PUBLICATION	varchar(30)	YES		NULL	
	PUBLISH_DATE	date	YES		NULL	
	BOOK_EDITION	int	YES		NULL	
	PRICE	double	YES		NULL	
	RACK_NUM	varchar(3)	YES		NULL	
	DATE_ARRIVAL	date	YES		NULL	
	SUPPLIER_ID	varchar(3)	YES	MUL	NULL	

Query:

```
CREATE TABLE LMS_FINE_DETAILS (  
    FINE_RANGE VARCHAR(3) PRIMARY KEY,  
    FINE_AMOUNT INT  
);  
desc LMS_FINE_DETAILS;
```

Output:

Result Grid

Filter Rows:

Export:

Wrap Cell Content:


	Field	Type	Null	Key	Default	Extra
▶	FINE_RANGE	varchar(3)	NO	PRI	NULL	
	FINE_AMOUNT	int	YES		NULL	


Query:


```
CREATE TABLE LMS_BOOK_ISSUE (  
    BOOK_ISSUE_NO INT PRIMARY KEY,  
    MEMBER_ID VARCHAR(10),  
    BOOK_CODE VARCHAR(10),  
    DATE_ISSUE DATE,  
    DATE_RETURN DATE,  
    DATE_RETURNED DATE,  
    BOOK_ISSUE_STATUS VARCHAR(20),  
    FINE_RANGE VARCHAR(3),  
    FOREIGN KEY (MEMBER_ID) REFERENCES LMS_MEMBERS(MEMBER_ID),  
    FOREIGN KEY (BOOK_CODE) REFERENCES LMS_BOOK_DETAILS(BOOK_CODE),  
    FOREIGN KEY (FINE_RANGE) REFERENCES LMS_FINE_DETAILS(FINE_RANGE)  
);  
desc LMS_BOOK_ISSUE;
```

Output:

Result Grid


Filter Rows:

Export:


Wrap Cell Content:


	Field	Type	Null	Key	Default	Extra
▶	BOOK_ISSUE_NO	int	NO	PRI	NULL	
	MEMBER_ID	varchar(10)	YES	MUL	NULL	
	BOOK_CODE	varchar(10)	YES	MUL	NULL	
	DATE_ISSUE	date	YES		NULL	
	DATE_RETURN	date	YES		NULL	
	DATE_RETURNED	date	YES		NULL	
	BOOK_ISSUE_STATUS	varchar(20)	YES		NULL	
	FINE_RANGE	varchar(3)	YES	MUL	NULL	

Value Insertion:

Query:

Insert into LMS_MEMBERS Values

```
('LM001', 'AMIT', 'CHENNAI', ('2012-02-20'), ('2013-11-02'),'Temporary'),  
('LM002', 'ABDHUL', 'DELHI', ('2012-04-10'),('2013-04-09'),'Temporary'),  
('LM003', 'GAYAN', 'CHENNAI', ('2013-05-12'),('2013-05-14'), 'Permanent'),  
('LM004', 'RADHA', 'CHENNAI', ('2012-04-22'), ('2013-04-21'), 'Temporary'),  
('LM005', 'GURU', 'BANGALORE', ('2012-03-30'), ('2013-03-29'),'Temporary'),  
('LM006', 'MOHAN', 'CHENNAI', ('2012-04-12'), ('2013-04-12'),'Temporary');
```

```
select * from LMS_MEMBERS;
```

Output:

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

	MEMBER_ID	MEMBER_NAME	CITY	DATE_REGISTER	DATE_EXPIRE	MEMBERSHIP_STATUS
▶	LM001	AMIT	CHENNAI	2012-02-20	2013-11-02	Temporary
	LM002	ABDHUL	DELHI	2012-04-10	2013-04-09	Temporary
	LM003	GAYAN	CHENNAI	2013-05-12	2013-05-14	Permanent
	LM004	RADHA	CHENNAI	2012-04-22	2013-04-21	Temporary
	LM005	GURU	BANGALORE	2012-03-30	2013-03-29	Temporary
	LM006	MOHAN	CHENNAI	2012-04-12	2013-04-12	Temporary
✱	NULL	NULL	NULL	NULL	NULL	NULL

Query:

Insert into LMS_SUPPLIERS_DETAILS Values

```
('S01','SINGAPORE SHOPPEE', 'CHENNAI', 989412355,'sing@gmail.com'),  
('S02','JK Stores', 'MUMBAI', 994012345 ,'jks@yahoo.com'),  
('S03','ROSE BOOK STORE', 'TRIVANDRUM', 944441122,'rose@gmail.com'),  
('S04','KAVARI STORE', 'DELHI', 863000145,'kavi@redif.com'),  
('S05','EINSTEN BOOK GALLERY', 'US', 954200001,'eingal@aol.com'),  
('S06','AKBAR STORE', 'MUMBAI',785562310 ,'akbakst@aol.com');
```

```
select * from LMS_SUPPLIERS_DETAILS;
```

Output:

Result Grid	Filter Rows:	Edit:	Export/Import:	Wrap Cell Content:
SUPPLIER_ID	SUPPLIER_NAME	ADDRESS	CONTACT	EMAIL
S01	SINGAPORE SHOPPEE	CHENNAI	989412355	sing@gmail.com
S02	JK Stores	MUMBAI	994012345	jks@yahoo.com
S03	ROSE BOOK STORE	TRIVANDRUM	944441122	rose@gmail.com
S04	KAVARI STORE	DELHI	863000145	kavi@redif.com
S05	EINSTEN BOOK GALLERY	US	954200001	eingal@aol.com
S06	AKBAR STORE	MUMBAI	785562310	akbakst@aol.com
NULL	NULL	NULL	NULL	NULL

Query:

Insert into LMS_FINE_DETAILS Values

```
('R1', 20),  
('R2', 50),  
('R3', 75),  
('R4', 100),  
('R5', 150),  
('R6', 200);
```

```
select * from lms_fine_details;
```

Output:

Result Grid			Filter Rows:	Edit:	Export/Import:	Wrap Cell Content:
	FINE_RANGE	FINE_AMOUNT				
▶	R1	20				
	R2	50				
	R3	75				
	R4	100				
	R5	150				
	R6	200				
★	NULL	NULL				

Query:

Insert into LMS_BOOK_DETAILS Values

```
('BL000001', 'Java How To Do Program', 'JAVA', 'Paul J. Deitel', 'Prentice Hall', ('1999-10-12'), 6,  
600.00, 'A1', ('2011-10-05'), 'S01'),  
('BL000002', 'Java: The Complete Reference ', 'JAVA', 'Herbert Schildt', 'Tata Mcgraw Hill ',  
('2011-10-10'), 5, 750.00, 'A1', ('2011-10-05'), 'S03'),  
('BL000003', 'Java How To Do Program', 'JAVA', 'Paul J. Deitel', 'Prentice Hall', ('1999-02-10'), 6,  
600.00, 'A1', ('2012-05-12'), 'S01'),  
('BL000004', 'Java: The Complete Reference ', 'JAVA', 'Herbert Schildt', 'Tata Mcgraw Hill ',  
('2011-10-10'), 5, 750.00, 'A1', ('2012-05-12'), 'S01'),  
('BL000005', 'Java How To Do Program', 'JAVA', 'Paul J. Deitel', 'Prentice Hall', ('1999-12-10'),  
6, 600.00, 'A1', ('2012-05-12'), 'S01'),  
('BL000006', 'Java: The Complete Reference ', 'JAVA', 'Herbert Schildt', 'Tata Mcgraw Hill ',  
('2011-10-10'), 5, 750.00, 'A1', ('2012-05-12'), 'S03'),  
('BL000007', 'Let Us C', 'C', 'Yashavant Kanetkar ', 'BPB Publications', ('2010-12-11'), 9, 500.00  
, 'A3', ('2010-01-03'), 'S03'),  
('BL000008', 'Let Us C', 'C', 'Yashavant Kanetkar ', 'BPB Publications', ('2010-12-11'), 9, 500.00 ,  
'A3', ('2010-01-03'), 'S04');
```

```
select * from LMS_BOOK_DETAILS ;
```

Output:

BOOK_CODE	BOOK_TITLE	CATEGORY	AUTHOR	PUBLICATION	PUBLISH_DATE	BOOK_EDITION	PRICE	RACK_NUM	DATE_ARRIVAL	SUPPLIER_ID
BL000001	Java How To Do Program	JAVA	Paul J. Deitel	Prentice Hall	1999-10-12	6	600	A1	2011-10-05	S01
BL000002	Java: The Complete Reference	JAVA	Herbert Schildt	Tata Mcgraw Hill	2011-10-10	5	750	A1	2011-10-05	S03
BL000003	Java How To Do Program	JAVA	Paul J. Deitel	Prentice Hall	1999-02-10	6	600	A1	2012-05-12	S01
BL000004	Java: The Complete Reference	JAVA	Herbert Schildt	Tata Mcgraw Hill	2011-10-10	5	750	A1	2012-05-12	S01
BL000005	Java How To Do Program	JAVA	Paul J. Deitel	Prentice Hall	1999-12-10	6	600	A1	2012-05-12	S01
BL000006	Java: The Complete Reference	JAVA	Herbert Schildt	Tata Mcgraw Hill	2011-10-10	5	750	A1	2012-05-12	S03
BL000007	Let Us C	C	Yashavant Kanetkar	BPB Publications	2010-12-11	9	500	A3	2010-01-03	S03
BL000008	Let Us C	C	Yashavant Kanetkar	BPB Publications	2010-12-11	1	500	A3	2010-01-03	S04
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Query:

Insert into LMS_BOOK_ISSUE Values

```
(001, 'LM001', 'BL000001', ('2012-05-01'), ('2012-05-16'), ('2012-05-16'), 'N', 'R1'),  
(002, 'LM002', 'BL000002', ('2012-02-12'), ('2012-06-06'), ('2012-11-01'), 'N', 'R2'),  
(003, 'LM003', 'BL000007', ('2012-04-19'), ('2012-05-06'), ('2012-10-05'), 'Y', 'R1'),  
(004, 'LM004', 'BL000005', ('2012-05-01'), ('2012-05-16'), ('2012-05-16'), 'Y', 'R1'),  
(005, 'LM005', 'BL000008', ('2012-07-11'), ('2012-08-16'), ('2012-08-19'), 'N', 'R2');
```

```
select * from LMS_BOOK_ISSUE;
```

Output:

BOOK_ISSUE_NO	MEMBER_ID	BOOK_CODE	DATE_ISSUE	DATE_RETURN	DATE_RETURNED	BOOK_ISSUE_STATUS	FINE_RANGE
1	LM001	BL000001	2012-05-01	2012-05-16	2012-05-16	N	R1
2	LM002	BL000002	2012-02-12	2012-06-06	2012-11-01	N	R2
3	LM003	BL000007	2012-04-19	2012-05-06	2012-10-05	Y	R1
4	LM004	BL000005	2012-05-01	2012-05-16	2012-05-16	Y	R1
5	LM005	BL000008	2012-07-11	2012-08-16	2012-08-19	N	R2
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Simple Questions

Problem #1

Write a query to display the member id, member name, city and membership status who are all having life time membership. Hint: Life time membership status is "Permanent".

Query:

```
select member_id, member_name, city, membership_status from lms_members where  
membership_status = 'Permanent';
```

Output:

member_id	member_name	city	membership_status
LM003	GAYAN	CHENNAI	Permanent

Problem #2

Write a query to display the member id, member name who have not returned the books. Hint: Book return status is book_issue_status = 'Y' or 'N'.

Query:

```
select member_id, member_name from lms_members join lms_book_issue using(member_id)
where Book_issue_status = 'N';
```

Output:

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
member_id	member_name		
LM001	AMIT		
LM002	ABDHUL		
LM005	GURU		

Problem #3

Write a query to display the member id, member name who have taken the book with book code 'BL000002'.

Query:

```
select member_id, member_name from lms_members join lms_book_issue using(member_id)
where book_code = 'BL000002';
```

Output:

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
member_id	member_name		
LM002	ABDHUL		

Problem #4

Write a query to display the book code, book title and author of the books whose author name begins with 'P'.

Query:

```
select book_code, book_title, author from lms_book_details where author like 'P%';
```

Output:

	book_code	book_title	author
▶	BL000001	Java How To Do Program	Paul J. Deitel
	BL000003	Java How To Do Program	Paul J. Deitel
	BL000005	Java How To Do Program	Paul J. Deitel

Problem #5

Write a query to display the total number of Java books available in library with alias name 'NO_OF_BOOKS'.

Query:

```
select count(book_code) as 'NO_OF_BOOKS' from lms_book_details where category = 'Java';
```

Output:

	NO_OF_BOOKS
▶	6

Problem #6

Write a query to list the category and number of books in each category with alias name 'NO_OF_BOOKS'.

Query:

```
select category, count(book_code) as 'NO_OF_BOOKS' from lms_book_details group by category;
```

Output:

	category	NO_OF_BOOKS
▶	JAVA	6
	C	2

Problem #7

Write a query to display the number of books published by "Prentice Hall" with the alias name "NO_OF_BOOKS".

Query:

```
select count(book_code) as 'NO_OF_BOOKS' from lms_book_details where publication = 'Prentice Hall';
```

Output:

Result Grid			Filter Rows: <input type="text"/>	Export:	Wrap Cell Content:
	NO_OF_BOOKS				
▶	3				

Problem #8

Write a query to display the book code, book title of the books which are issued on the date "1 st April 2012".

Query:

```
select book_code, book_title from lms_book_details join lms_book_issue using(book_code) where date_issue = '2012-04-01';
```

Output:

Result Grid			Filter Rows: <input type="text"/>	Export:	Wrap Cell Content:
	book_code	book_title			

Problem #9

Write a query to display the member id, member name, date of registration and expiry date of the members whose membership expiry date is before APR 2013.

Query:

```
select member_id, member_name, date_register, date_expire from lms_members where date_expire < '2013-04-01';
```

Output:

Result Grid			Filter Rows: <input type="text"/>	Export:	Wrap Cell Content:
	member_id	member_name	date_register	date_expire	
▶	LM005	GURU	2012-03-30	2013-03-29	

Problem #10

write a query to display the member id, member name, date of registration, membership status of the members who registered before "March 2012" and membership status is "Temporary"

Query:

```
select member_id, member_name, date_register, membership_status from lms_members
where date_register < '2012-03-01' and membership_status = 'Temporary';
```

Output:

Result Grid		Filter Rows: <input type="text"/>	Export:	Wrap Cell Content:
	member_id	member_name	date_register	membership_status
▶	LM001	AMIT	2012-02-20	Temporary

Problem #11

Write a query to display the member id, member name who's City is CHENNAI or DELHI. Hint: Display the member name in title case with alias name 'Name'.

Query:

```
select member_id, member_name as 'Name' from lms_members where city = 'Chennai' or city = 'Delhi';
```

Output:

Result Grid		Filter Rows: <input type="text"/>	Export:	Wrap Cell Content:
	member_id	Name		
▶	LM001	AMIT		
	LM002	ABDHUL		
	LM003	GAYAN		
	LM004	RADHA		
	LM006	MOHAN		

Problem #12

Write a query to concatenate book title, author and display in the following format.

Book_Title_is_written_by_Author Example: Let Us C_is_written_by_Yashavant Kanetkar Hint: display unique books. Use "BOOK_WRITTEN_BY" as alias name.

Query:

```
select distinct concat(book_title,'_is_written_by_',author) as 'BOOK_WRITTEN_BY' from
lms_book_details;
```

Output:

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
BOOK_WRITTEN_BY			
▶ Java How To Do Program_is_written_by_Paul J....			
Java: The Complete Reference _is_written_by_...			
Let Us C_is_written_by_Yashavant Kanetkar			

Problem #13

Write a query to display the average price of books which is belonging to 'JAVA' category with alias name "AVERAGEPRICE".

Query:

```
select avg(price) as 'AVERAGEPRICE' from lms_book_details where category = 'Java';
```

Output:

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
AVERAGEPRICE			
▶ 675			

Problem #14

Write a query to display the supplier id, supplier name and email of the suppliers who are all having gmail account.

Query:

```
select supplier_id, supplier_name, email from lms_suppliers_details where email like '%gmail%';
```

Output:

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
supplier_id	supplier_name	email	
▶ S01	SINGAPORE SHOPPEE	sing@gmail.com	
S03	ROSE BOOK STORE	rose@gmail.com	

Problem #15

Write a query to display the supplier id, supplier name and contact details. Contact details can be either phone number or email or address with alias name "CONTACTDETAILS". If phone number is null then display email, even if email also null then display the address of the supplier. Hint: Use Coalesce function.

Query:

```
select supplier_id, supplier_name, coalesce(contact, email, address, 'N/A') as 'CONTACTDETAILS' from lms_suppliers_details;
```

Output:

	supplier_id	supplier_name	CONTACTDETAILS
▶	S01	SINGAPORE SHOPPEE	989412355
	S02	JK Stores	994012345
	S03	ROSE BOOK STORE	944441122
	S04	KAVARI STORE	863000145
	S05	EINSTEIN BOOK GALLERY	954200001
	S06	AKBAR STORE	785562310

Problem #16

Write a query to display the supplier id, supplier name and contact. If phone number is null then display 'No' else display 'Yes' with alias name "PHONENUMAVAILABLE". Hint: Use NVL2.

Query:

```
select supplier_id, supplier_name, if(contact is null,'No','Yes') as 'PHONENUMAVAILABLE' from lms_suppliers_details;
```

Output:

	supplier_id	supplier_name	PHONENUMAVAILABLE
▶	S01	SINGAPORE SHOPPEE	Yes
	S02	JK Stores	Yes
	S03	ROSE BOOK STORE	Yes
	S04	KAVARI STORE	Yes
	S05	EINSTEIN BOOK GALLERY	Yes
	S06	AKBAR STORE	Yes

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.

Query:

```
select member_id, member_name, book_code, book_title from lms_members join  
lms_book_issue using(member_id) join lms_book_details using(book_code);
```

Output:

	member_id	member_name	book_code	book_title
▶	LM001	AMIT	BL000001	Java How To Do Program
	LM002	ABDHUL	BL000002	Java: The Complete Reference
	LM003	GAYAN	BL000007	Let Us C
	LM004	RADHA	BL000005	Java How To Do Program
	LM005	GURU	BL000008	Let Us C

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.

Query:

```
select count(book_issue_no) as 'NO_OF_BOOKS_AVAILABLE' from lms_book_issue where  
book_issue_status = 'N';
```

Output:

	NO_OF_BOOKS_AVAILABLE
▶	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.

Query:

```
select member_id, member_name, fine_range, fine_amount from lms_members join  
lms_book_issue using(member_id) join lms_fine_details using(fine_range) where fine_amount <  
100;
```

Output:

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
member_id	member_name	fine_range	fine_amount
LM001	AMIT	R1	20
LM002	ABDHUL	R2	50
LM003	GAYAN	R1	20
LM004	RADHA	R1	20
LM005	GURU	R2	50

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.

Query:

```
select book_code, book_title, book_issue_status from lms_book_details join lms_book_issue
using(book_code) where category = 'Java' and book_edition = 6;
```

Output:

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	book_code	book_title	book_issue_status
▶	BL000001	Java How To Do Program	N
	BL000005	Java How To Do Program	Y

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.

Query:

```
select book_code, book_title, rack_num from lms_book_details where rack_num = 'A1' order by
book_title;
```

Output:

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
book_code	book_title	rack_num	
BL000001	Java How To Do Program	A1	
BL000003	Java How To Do Program	A1	
BL000005	Java How To Do Program	A1	
BL000002	Java: The Complete Reference	A1	
BL000004	Java: The Complete Reference	A1	
BL000006	Java: The Complete Reference	A1	

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.

Query:

```
select member_id, member_name, date_return, date_returned from lms_members join  
lms_book_issue using(member_id) where date_returned > date_return;
```

Output:

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
member_id	member_name	date_return	date_returned
LM002	ABDHUL	2012-06-06	2012-11-01
LM003	GAYAN	2012-05-06	2012-10-05
LM005	GURU	2012-08-16	2012-08-19

Problem #7

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

Query:

```
select member_id, member_name, date_register from lms_members where member_id in  
(select member_id from lms_book_issue);
```

Output:

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
member_id	member_name	date_register	
LM001	AMIT	2012-02-20	
LM002	ABDHUL	2012-04-10	
LM003	GAYAN	2013-05-12	
LM004	RADHA	2012-04-22	
LM005	GURU	2012-03-30	

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.

Query:

```
select member_id, member_name from lms_members where member_id not in (select member_id from lms_book_issue where fine_range is not null and year(date_returned) = 2012);
```

Output:

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
member_id	member_name		
LM006	MOHAN		

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".

Query:

```
select date_issue, count(book_issue_no) as 'NOOFBOOKS' from lms_book_issue group by date_issue having count(book_issue_no) = (select max(max_book) from (select count(book_issue_no) as 'max_book' from lms_book_issue group by date_issue) as sub);
```

Output:

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
date_issue	NOOFBOOKS		
2012-05-01	2		

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'.

Query:

```
select book_title, supplier_id from lms_book_details join lms_suppliers_details
using(supplier_id) where author = 'Herbert Schildt' and book_edition = 5 and supplier_id = 'S01';
```

Output:

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	book_title	supplier_id		
▶	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.

Query:

```
select rack_num, count(book_code) as 'NOOFBOOKS' from lms_book_details group by
rack_num order by rack_num;
```

Output:

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	rack_num	NOOFBOOKS		
▶	A1	6		
	A3	2		

Problem #12

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

Query:

```
select book_issue_no, member_name, date_register, date_expire, book_title, category, author,
price, date_issue, date_return, date_returned, book_issue_status, fine_amount from
lms_members join lms_book_issue using(member_id) join lms_book_details using(book_code)
join lms_fine_details using(fine_range);
```

Output:

Result Grid				Filter Rows:		Exports:		Wrap Cell Contents:					
	book_issue_no	member_name	date_register	date_expire	book_title	category	author	price	date_issue	date_return	date_returned	book_issue_status	fine_amount
1		AMIT	2012-02-20	2013-11-02	Java How To Do Program	JAVA	Paul J. Deitel	600	2012-05-01	2012-05-16	2012-05-16	N	20
2		ABDHUL	2012-04-10	2013-04-09	Java: The Complete Reference	JAVA	Herbert Schildt	750	2012-02-12	2012-06-06	2012-11-01	N	50
3		GAYAN	2013-05-12	2013-05-14	Let Us C	C	Yashavant Kanetkar	500	2012-04-19	2012-05-06	2012-10-05	Y	20
4		RADHA	2012-04-22	2013-04-21	Java How To Do Program	JAVA	Paul J. Deitel	600	2012-05-01	2012-05-16	2012-05-16	Y	20
5		GURU	2012-03-30	2013-03-29	Let Us C	C	Yashavant Kanetkar	500	2012-07-11	2012-08-16	2012-08-19	N	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.

Query:

```
select book_code, book_title, publish_date from lms_book_details where  
monthname(publish_date) = 'December';
```

Output:

	book_code	book_title	publish_date
1	BL000005	Java How To Do Program	1999-12-10
2	BL000007	Let Us C	2010-12-11
3	BL000008	Let Us C	2010-12-11

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.

Query:

```
select book_code, book_title, book_issue_status from lms_book_details join lms_book_issue  
using(book_code) where category = 'Java' and book_edition = 5;
```

Output:

	book_code	book_title	book_issue_status
1	BL000002	Java: The Complete Reference	N

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

Query:

```
select book_code, book_title, supplier_name from lms_book_details join lms_suppliers_details  
using(supplier_id) where supplier_id in (select supplier_id from lms_book_details group by  
supplier_id having count(book_code) = (select max(max_count) from (select count(book_code)  
as 'max_count' from lms_book_details group by supplier_id) as sub));
```

Output:

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
book_code	book_title	supplier_name	
BL000001	Java How To Do Program	SINGAPORE SHOPPEE	
BL000003	Java How To Do Program	SINGAPORE SHOPPEE	
BL000004	Java: The Complete Reference	SINGAPORE SHOPPEE	
BL000005	Java How To Do Program	SINGAPORE SHOPPEE	

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

Query:

```
select member_id, member_name, 3-count(book_issue_no) as 'REMAININGBOOKS' from  
lms_members left join lms_book_issue using(member_id) group by member_id;
```

Output:

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
member_id	member_name	REMAININGBOOKS	
LM001	AMIT	2	
LM002	ABDHUL	2	
LM003	GAYAN	2	
LM004	RADHA	2	
LM005	GURU	2	
LM006	MOHAN	3	

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 STORE

Query:

```
select supplier_id, supplier_name from lms_suppliers_details where supplier_id in (select supplier_id from lms_book_details group by supplier_id having count(book_code) = (select min(min_count) from (select count(book_code) as 'min_count' from lms_book_details group by supplier_id) as sub));
```

Output:

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
supplier_id	supplier_name		
S04	KAVARI STORE		