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Date : 12-07-2025

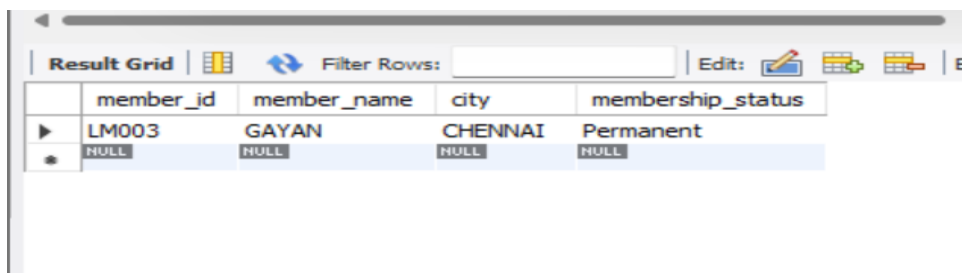
Weekly Task :

1. Write a query to display the member id, member name, city and membership status who are all having life time membership

Solution

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

Output



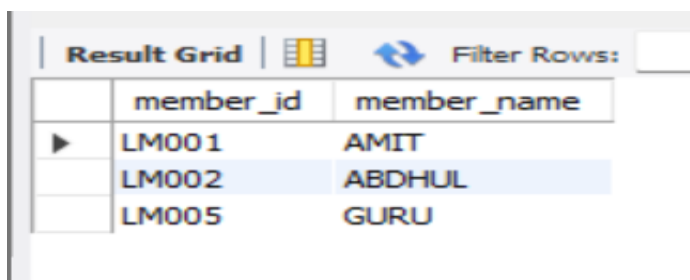
	member_id	member_name	city	membership_status
▶	LM003	GAYAN	CHENNAI	Permanent
•	NULL	NULL	NULL	NULL

2. Write a query to display the member id, member name who have not returned the books.

Solution

```
select m.member_id, m.member_name
from lms_members m
join lms_book_issue b on m.member_id = b.member_id
where b.book_issue_status = 'N';
```

Output



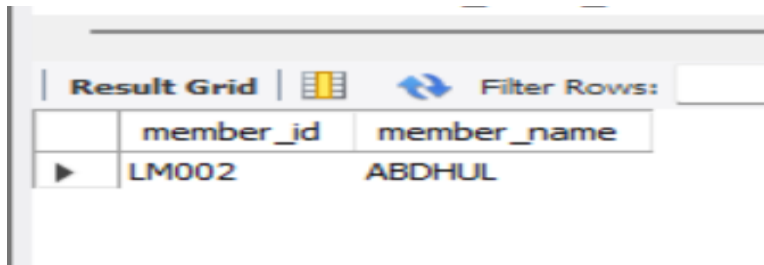
	member_id	member_name
▶	LM001	AMIT
	LM002	ABDHUL
	LM005	GURU

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

Solution

```
select m.member_id, m.member_name
from lms_members m
join lms_book_issue b on m.member_id = b.member_id
where b.book_code = 'BL000002';
```

Output



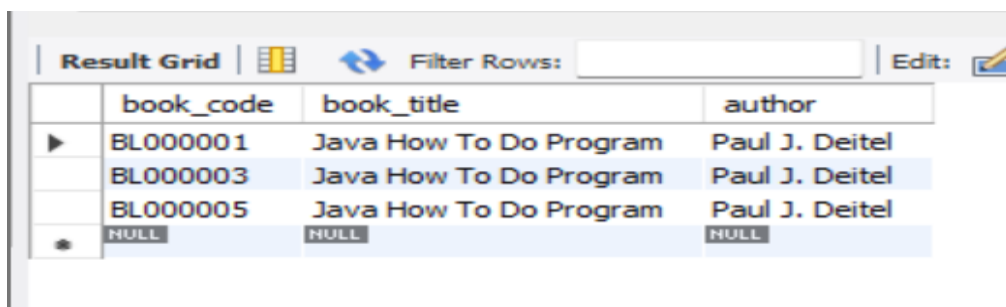
	member_id	member_name
▶	LM002	ABDHUL

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

Solution

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

Output



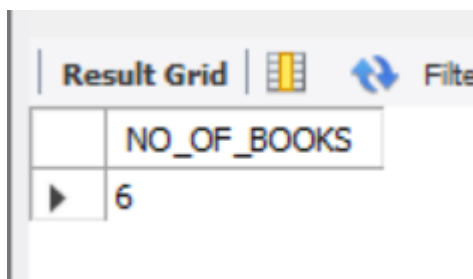
	book_code	book_title	author
▶	BL000001	Java How To Do Program	Paul J. Deitel
	BL000003	Java How To Do Program	Paul J. Deitel
	BL000005	Java How To Do Program	Paul J. Deitel
•	NULL	NULL	NULL

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

Solution

```
select count(*) as NO_OF_BOOKS
from lms_book_details
where category = 'JAVA';
```

Output



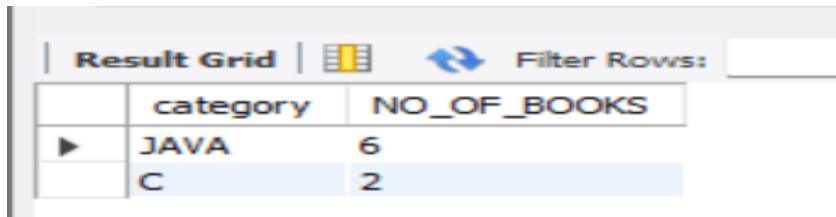
	NO_OF_BOOKS
▶	6

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

Solution

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

Output



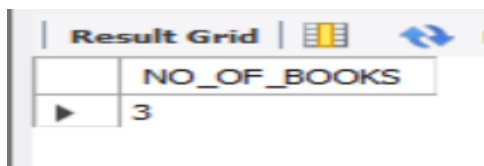
	category	NO_OF_BOOKS
▶	JAVA	6
	C	2

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

Solution

```
select count(*) as NO_OF_BOOKS
from lms_book_details
where publisher = 'Prentice Hall';
```

Output



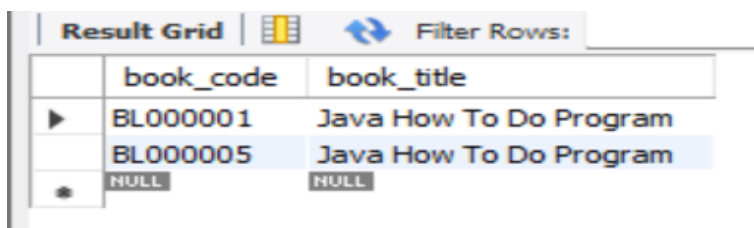
	NO_OF_BOOKS
▶	3

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

Solution

```
select book_code, book_title
from lms_book_details
where book_code in (select book_code from lms_book_issue where date_issue = '2012-05-01');
```

Output



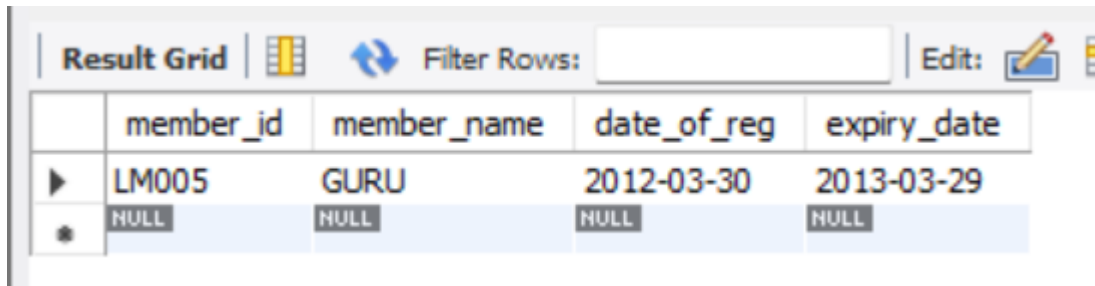
	book_code	book_title
▶	BL000001	Java How To Do Program
	BL000005	Java How To Do Program
•	NULL	NULL

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

Solution

```
select member_id, member_name, date_of_reg, expiry_date
from lms_members
where expiry_date < '2013-04-01';
```

Output



The screenshot shows a 'Result Grid' window with a toolbar at the top containing icons for 'Filter Rows' and 'Edit'. The grid has four columns: 'member_id', 'member_name', 'date_of_reg', and 'expiry_date'. The first row contains the values 'LM005', 'GURU', '2012-03-30', and '2013-03-29'. The second row contains 'NULL', 'NULL', 'NULL', and 'NULL'.

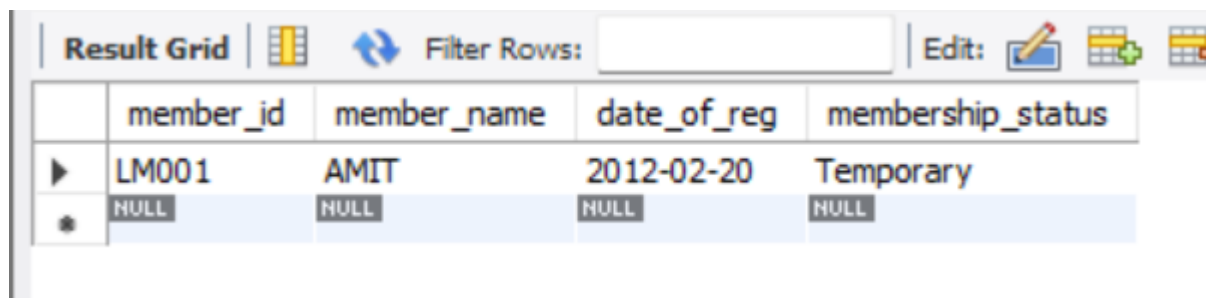
	member_id	member_name	date_of_reg	expiry_date
▶	LM005	GURU	2012-03-30	2013-03-29
•	NULL	NULL	NULL	NULL

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"

Solution

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

Output



The screenshot shows a 'Result Grid' window with a toolbar at the top containing icons for 'Filter Rows', 'Edit', and other grid functions. The grid has four columns: 'member_id', 'member_name', 'date_of_reg', and 'membership_status'. The first row contains the values 'LM001', 'AMIT', '2012-02-20', and 'Temporary'. The second row contains 'NULL', 'NULL', 'NULL', and 'NULL'.

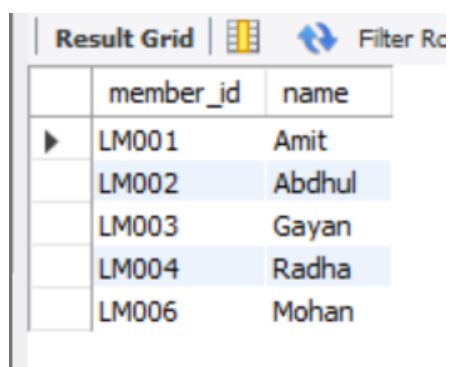
	member_id	member_name	date_of_reg	membership_status
▶	LM001	AMIT	2012-02-20	Temporary
•	NULL	NULL	NULL	NULL

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'

Solution

```
select member_id,
concat(upper(left(member_name,1)),lower(substr(member_name,2))) as name
from lms_members
where city in ('CHENNAI', 'DELHI');
```

Output



The screenshot shows a 'Result Grid' window with a toolbar at the top containing icons for 'Filter Rows' and 'Filter Rc'. The grid has two columns: 'member_id' and 'name'. The first row contains the values 'LM001' and 'Amit'. The second row contains 'LM002' and 'Abdhul'. The third row contains 'LM003' and 'Gayan'. The fourth row contains 'LM004' and 'Radha'. The fifth row contains 'LM006' and 'Mohan'.

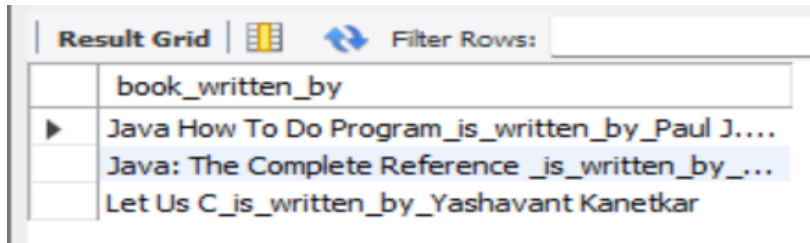
	member_id	name
▶	LM001	Amit
	LM002	Abdhul
	LM003	Gayan
	LM004	Radha
	LM006	Mohan

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

Solution

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

Output



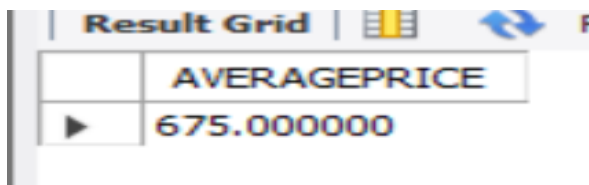
	book_written_by
▶	Java How To Do Program_is_written_by_Paul J....
	Java: The Complete Reference_is_written_by_...
	Let Us C_is_written_by_Yashavant Kanetkar

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

Solution

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

Output



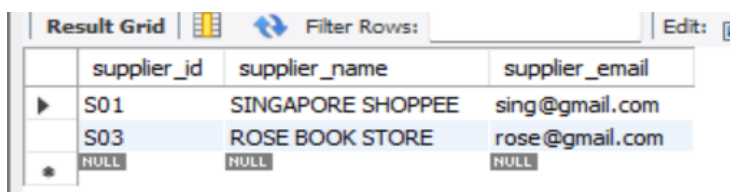
	AVERAGEPRICE
▶	675.000000

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

Solution

```
select supplier_id, supplier_name, supplier_email
from lms_suppliers_details
where supplier_email like '%gmail.com';
```

Output



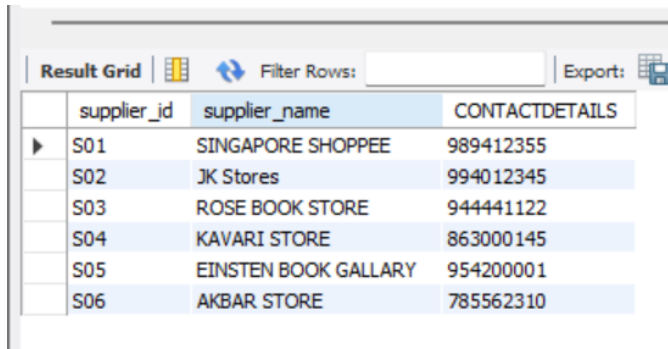
	supplier_id	supplier_name	supplier_email
▶	S01	SINGAPORE SHOPPEE	sing@gmail.com
	S03	ROSE BOOK STORE	rose@gmail.com
*	NULL	NULL	NULL

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

Solution

```
select supplier_id, supplier_name, coalesce(supplier_phone, supplier_email,
supplier_address) as CONTACTDETAILS
from lms_suppliers_details;
```

Output



The screenshot shows a 'Result Grid' window with a table containing 6 rows of supplier data. The columns are 'supplier_id', 'supplier_name', and 'CONTACTDETAILS'. The data is as follows:

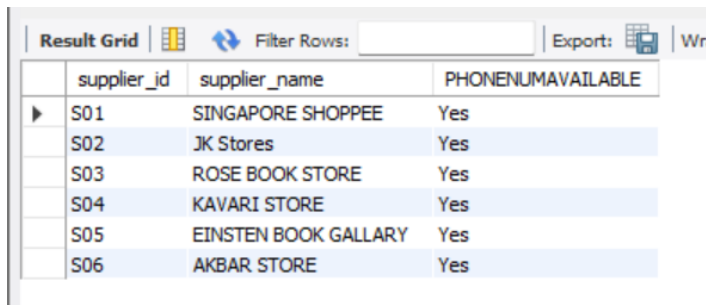
supplier_id	supplier_name	CONTACTDETAILS
S01	SINGAPORE SHOPPEE	989412355
S02	JK Stores	994012345
S03	ROSE BOOK STORE	944441122
S04	KAVARI STORE	863000145
S05	EINSTEN BOOK GALLERY	954200001
S06	AKBAR STORE	785562310

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"

Solution

```
select supplier_id, supplier_name,
case
when supplier_phone is not null then 'Yes'
else 'No' end as PHONENUMAVAILABLE
from lms_suppliers_details;
```

Output



The screenshot shows a 'Result Grid' window with a table containing 6 rows of supplier data. The columns are 'supplier_id', 'supplier_name', and 'PHONENUMAVAILABLE'. The data is as follows:

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

Average Questions:

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

Solution

```
select m.member_id, m.member_name, b.book_code, d.book_title
from lms_members m
join lms_book_issue b on m.member_id = b.member_id
join lms_book_details d on b.book_code = d.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

18. 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)

Solution

```
select count(*) as NO_OF_BOOKS_AVAILABLE
from lms_book_details
where book_code not in (select book_code from lms_book_issue);
```

Output

NO_OF_BOOKS_AVAILABLE
3

19. 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.

Solution

```
select m.member_id, m.member_name, f.fine_code, f.fine_amount
from lms_members m
join lms_book_issue b on m.member_id = b.member_id
join lms_fine_details f on b.fine_code = f.fine_code
where f.fine_amount < 100;
```

Output

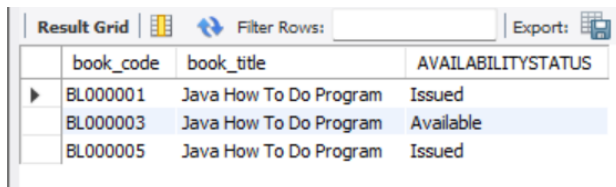
member_id	member_name	fine_code	fine_amount
LM001	AMIT	R1	20.00
LM003	GAYAN	R1	20.00
LM004	RADHA	R1	20.00
LM002	ABDHUL	R2	50.00
LM005	GURU	R2	50.00

20. 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"

Solution

```
select d.book_code, d.book_title,  
case  
  when b.book_issue_status is null then 'Available'  
  else 'Issued' end as AVAILABILITYSTATUS  
from lms_book_details d  
left join lms_book_issue b on d.book_code = b.book_code  
where d.category = 'JAVA' and d.edition = 6;
```

Output



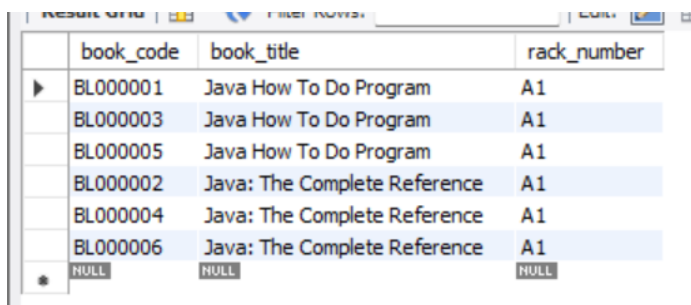
	book_code	book_title	AVAILABILITYSTATUS
▶	BL000001	Java How To Do Program	Issued
	BL000003	Java How To Do Program	Available
	BL000005	Java How To Do Program	Issued

21. 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

Solution

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

Output



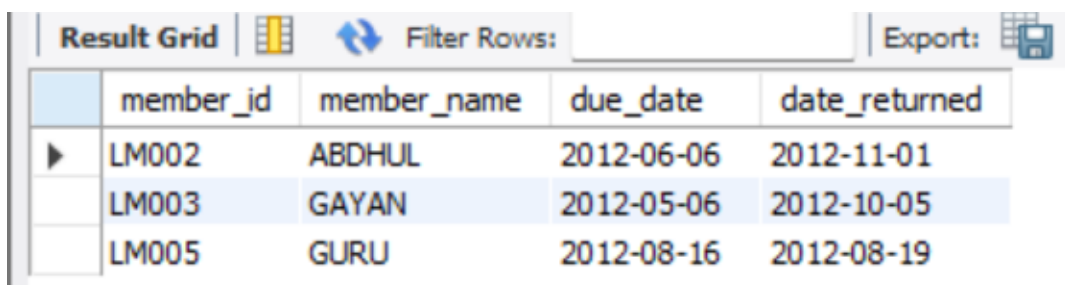
	book_code	book_title	rack_number
▶	BL000001	Java How To Do Program	A1
	BL000003	Java How To Do Program	A1
	BL000005	Java How To Do Program	A1
	BL000002	Java: The Complete Reference	A1
	BL000004	Java: The Complete Reference	A1
	BL000006	Java: The Complete Reference	A1
*	NULL	NULL	NULL

22. Write a query to display the member id, member name, due date and date returned of the members who have returned the books after the due date

Solution

```
select m.member_id, m.member_name, b.due_date, b.date_returned  
from lms_book_issue b  
join lms_members m on b.member_id = m.member_id  
where b.date_returned > b.due_date;
```

Output



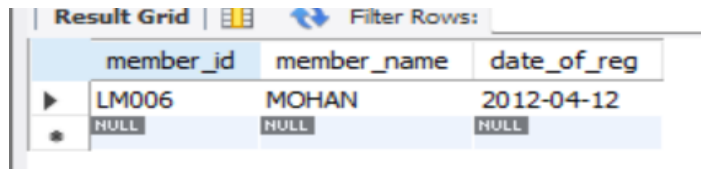
	member_id	member_name	due_date	date_returned
▶	LM002	ABDHUL	2012-06-06	2012-11-01
	LM003	GAYAN	2012-05-06	2012-10-05
	LM005	GURU	2012-08-16	2012-08-19

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

Solution

```
select member_id, member_name, date_of_reg
from lms_members
where member_id not in (select member_id from lms_book_issue);
```

Output



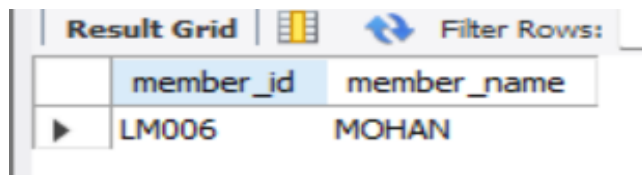
	member_id	member_name	date_of_reg
▶	LM006	MOHAN	2012-04-12
★	NULL	NULL	NULL

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

Solution

```
select m.member_id, m.member_name
from lms_members m
left join lms_book_issue b on m.member_id = b.member_id
Where b.date_returned is null or year(b.date_returned) != 2012;
```

Output



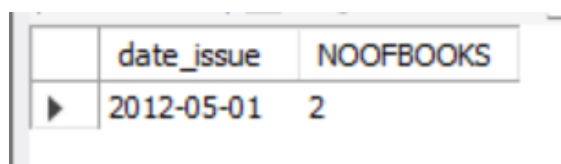
	member_id	member_name
▶	LM006	MOHAN

25. 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".

Solution

```
select date_issue, count(*) as NOOFBOOKS
from lms_book_issue
group by date_issue
order by noofbooks desc limit 1;
```

Output



	date_issue	NOOFBOOKS
▶	2012-05-01	2

26. 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'

Solution

```
select book_title, supplier_id
from lms_book_details
where author = 'Herbert Schildt' and edition = 5 and supplier_id = 'S01';
```

Output

book_title	supplier_id
Java: The Complete Reference	S01

27. 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

Solution

```
select rack_number, count(*) as NOOFBOOKS
from lms_book_details
group by rack_number
order by rack_number;
```

Output

rack_number	NOOFBOOKS
A1	6
A3	2

28. 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

Solution

```
select b.issue_id, m.member_name, m.date_of_reg, m.expiry_date, d.book_title,
d.category, d.author, d.price,
b.date_issue, b.due_date, b.date_returned, b.book_issue_status, f.fine_amount
from lms_book_issue b
join lms_members m on b.member_id = m.member_id
join lms_book_details d on b.book_code = d.book_code
join lms_fine_details f on b.fine_code = f.fine_code;
```

Output

issue_id	member_name	date_of_reg	expiry_date	book_title	category	author	price	date_issue	due_date	date_returned
1	AMIT	2012-02-20	2013-11-02	Java How To Do Program	JAVA	Paul J. Deitel	600.00	2012-05-01	2012-05-16	2012-05-16
2	ABDHUL	2012-04-10	2013-04-09	Java: The Complete Reference	JAVA	Herbert Schildt	750.00	2012-02-12	2012-06-06	2012-06-06
3	GAYAN	2013-05-12	2013-05-14	Let Us C	C	Yashavant Kanetkar	500.00	2012-04-19	2012-05-06	2012-05-06
4	RADHA	2012-04-22	2013-04-21	Java How To Do Program	JAVA	Paul J. Deitel	600.00	2012-05-01	2012-05-16	2012-05-16
5	GURU	2012-03-30	2013-03-29	Let Us C	C	Yashavant Kanetkar	500.00	2012-07-11	2012-08-16	2012-08-16

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

Solution

```
select book_code, book_title, publish_date
from lms_book_details
where month(publish_date) = 12;
```

Output

	book_code	book_title	publish_date
▶	BL000005	Java How To Do Program	1999-12-10
	BL000007	Let Us C	2010-12-11
	BL000008	Let Us C	2010-12-11
•	NULL	NULL	NULL

30. 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"

Solution

```
select d.book_code, d.book_title,
case
  when b.book_issue_status is null then 'Available'
  else 'Issued' end as AVAILABILITYSTATUS
from lms_book_details d
left join lms_book_issue b on d.book_code = b.book_code
where d.category = 'JAVA' and d.edition = 5;
```

Output

	book_code	book_title	AVAILABILITYSTATUS
▶	BL000002	Java: The Complete Reference	Issued
	BL000004	Java: The Complete Reference	Available
	BL000006	Java: The Complete Reference	Available

Complex Query:

31. Write a query to display the book code, book title and supplier name of the supplier who has supplied maximum number of books

Solution

```
select d.book_code, d.book_title, s.supplier_name
from lms_book_details d
join lms_suppliers_details s on d.supplier_id = s.supplier_id
where s.supplier_id = (select supplier_id from lms_book_details group by supplier_id
  order by count(supplier_id) desc limit 1
);
```

Output

Result Grid			
Filter Rows:			
	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

32. Write a query to display the member id, member name and number of remaining books he/she can take with "REMAININGBOOKS" as alias name

Solution

```
select m.member_id, m.member_name, (3 - count(b.book_code)) as
REMAININGBOOKS
from lms_members m
left join lms_book_issue b on m.member_id = b.member_id
group by m.member_id, m.member_name;
```

Output

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

33. Write a query to display the supplier id and supplier name of the supplier who has supplied minimum number of books

Solution

```
select supplier_id, supplier_name
from lms_suppliers_details
where supplier_id = (select supplier_id from lms_book_details group by supplier_id
order by count(*) asc limit 1 );
```

Output

supplier_id		supplier_name
▶	S04	KAVARI STORE
•	NULL	NULL

