SQL DAILY TASK

1. 1. Insert a new book with the following details: book_id = 101, title = 'The Great Gatsby', author = 'F. Scott Fitzgerald', genre = 'Fiction', price = 10.99

```
22    /*1*/
23 •  insert into books values(101,'The Great Gatsby',
24    'F. Scott Fitzgerald','Fiction',10.99);
25 •  select * from books;
26
27
28
```

Result Grid | Filter Rows: | Edit: | Export/Import:

book_id	title	author	genre	price
101	The Great Gatsby	F. Scott Fitzgerald	Fiction	10.99
102	1984	George Owell	Dystopian	12.41
103	To Kill a Mockingbird	Harper Lee	Fiction	15.00
104	The Diary of a Young Gir	Anne Frank	History	13.88
105	The hunt of red October	Tome clynse	Fiction	13.09
106	Godhan	Munshi Premchand	Drama	15.09
1056	Karma Bhumi	Munshi Premchand	Drama	16.09
NULL	NULL	NULL	NULL	NULL

2. Update the price of the book with book_id = 101 to 12.99

```
27    /*2*/
28 •  update books set price=10.99 where book_id=101;
29
30
```

Result Grid | Filter Rows: | Edit: | Export/Impo

book_id	title	author	genre	price
101	The Great Gatsby	F. Scott Fitzgerald	Fiction	10.99
102	1984	George Owell	Dystopian	12.41
103	To Kill a Mockingbird	Harper Lee	Fiction	15.00
104	The Diary of a Young Gir	Anne Frank	History	13.88
105	The hunt of red October	Tome clynse	Fiction	13.09
106	Godhan	Munshi Premchand	Drama	15.09
1056	Karma Bhumi	Munshi Premchand	Drama	16.09
NULL	NULL	NULL	NULL	NULL

3. Delete the book with book_id = 101.

```
33    /*3*/
34 •  delete from books where book_id=101;
35
36
```

Result Grid | Filter Rows: | Edit: | Export/Impo

book_id	title	author	genre	price
102	1984	George Owell	Dystopian	12.41
103	To Kill a Mockingbird	Harper Lee	Fiction	15.00
104	The Diary of a Young Gir	Anne Frank	History	13.88
105	The hunt of red October	Tome clynse	Fiction	13.09
106	Godhan	Munshi Premchand	Drama	15.09
1056	Karma Bhumi	Munshi Premchand	Drama	16.09
NULL	NULL	NULL	NULL	NULL

4. Insert a new member with the following details: member_id = 201, member_name = 'Jane Doe', membership_date = '2024-01-01'.

```
36    /*4*/
37 •  insert into members values(210,'Jane Doe','2024-01-01');
```

Result Grid | Filter Rows: | Edit: | Export/Import:

member_id	member_name	membership_date
202	Harry	2024-01-01
203	Michel	2024-01-10
204	Trevor	2024-02-01
205	Franklin	2024-10-21
210	Jane Doe	2024-01-01
NULL	NULL	NULL

5. Update the membership_date of the member with member_id = 201 to '2024-02-01

```
39    /*5*/
40 •  update members set membership_date='2024-02-01' where
41    member_id=201;
42
43
```

Result Grid | Filter Rows: | Edit: | Export/Import:

member_id	member_name	membership_date
202	Harry	2024-01-01
203	Michel	2024-01-10
204	Trevor	2024-02-01
205	Franklin	2024-10-21
210	Jane Doe	2024-01-01
NULL	NULL	NULL

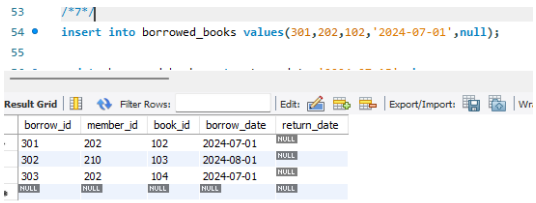
6. Delete the member with member_id = 201

```
42    /*6*/
43 •  delete from members where member_id=201;
```

Result Grid | Filter Rows: | Edit: | Exp

member_id	member_name	membership_date
202	Harry	2024-01-01
203	Michel	2024-01-10
204	Trevor	2024-02-01
205	Franklin	2024-10-21
210	Jane Doe	2024-01-01
NULL	NULL	NULL

7. Insert a new borrowed book record with the following details: borrow_id = 301, member_id = 202, book_id = 102, borrow_date = '2024-07-01', return_date = NULL

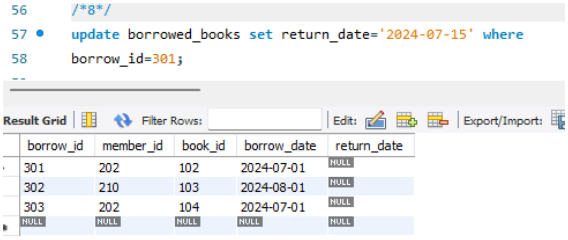


```
53    /*7*/
54 •  insert into borrowed_books values(301,202,102,'2024-07-01',null);
55
```

Result Grid | Filter Rows: | Edit: | Export/Import:

borrow_id	member_id	book_id	borrow_date	return_date
301	202	102	2024-07-01	NULL
302	210	103	2024-08-01	NULL
303	202	104	2024-07-01	NULL
NULL	NULL	NULL	NULL	NULL

8. Update the return_date of the borrowed book record with borrow_id = 301 to '2024-07-15

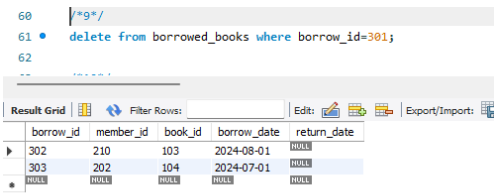


```
56    /*8*/
57 •  update borrowed_books set return_date='2024-07-15' where
58    borrow_id=301;
```

Result Grid | Filter Rows: | Edit: | Export/Import:

borrow_id	member_id	book_id	borrow_date	return_date
301	202	102	2024-07-01	NULL
302	210	103	2024-08-01	NULL
303	202	104	2024-07-01	NULL
NULL	NULL	NULL	NULL	NULL

9. Delete the borrowed book record with borrow_id = 301.

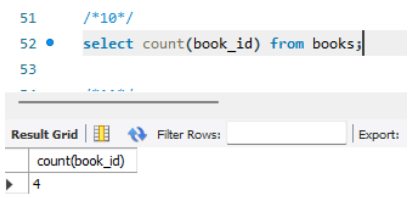


```
60    /*9*/
61 •  delete from borrowed_books where borrow_id=301;
62
```

Result Grid | Filter Rows: | Edit: | Export/Import:

borrow_id	member_id	book_id	borrow_date	return_date
302	210	103	2024-08-01	NULL
303	202	104	2024-07-01	NULL
NULL	NULL	NULL	NULL	NULL

10. Count the total number of books.



```
51    /*10*/
52 •  select count(book_id) from books;
53
```

Result Grid | Filter Rows: | Export:

count(book_id)
4

11. Count the total number of members.

```
53    /*11*/
54 •  select count(member_id) from members;
55
56    /*12*/
```

Result Grid | Filter Rows: | Export:

count(member_id)
5

12. Count the total number of borrowed book records.

```
55    /*12*/
56 •  select count(borrow_id) from borrowed_books;
```

Result Grid | Filter Rows: | Export: | Wrap

count(borrow_id)
3

13. Find the average price of books in the 'Fiction' genre.

```
65    /*13*/
66 •  select avg(price) as average_price
67    from books
68    where genre='Fiction';
```

Result Grid | Filter Rows: | Export:

average_price
14.045000

14. Find the total number of books borrowed by each member

```
73    /*14*/
74 •  select member_id,count(book_id)
75    as total_books_borrowed
76    from borrowed_books
77    group by member_id;
```

Result Grid | Filter Rows: | Expo

title
To Kill a Mockingbird
The hunt of red October

15. Find all books in the 'Fiction' genre

```
78    /*15*/
79 •  select title from books
80    where genre= 'Fiction';
```

Result Grid | Filter Rows:

title
To Kill a Mockingbird
The hunt of red October

16. Find all members who joined after '2024-01-01

```
81    /*16*/
82 •  select member_id,member_name
83    from members
84    where membership_date > '2024-01-01';
```

Result Grid | Filter Rows: | Edit:

member_id	member_name
203	Michel
204	Trevor
205	Franklin
NULL	NULL

17. Find all borrowed book records where the borrow_date is '2024-07-01'.

```
85    /*17*/
86 •  SELECT *
87    FROM borrowed_books
88    WHERE borrow_date = '2024-07-01';
89
```

Result Grid | Filter Rows: | Edit:

borrow_id	member_id	book_id	borrow_date	return_date
301	202	102	2024-07-01	NULL
303	202	104	2024-07-01	NULL
NULL	NULL	NULL	NULL	NULL

18. Sort books by price in ascending order.

```
97    /*18*/
98 •  select *
99    from books
100   order by price asc;
101
102
103
```

Result Grid | Filter Rows: | Edit: | Expo

book_id	title	author	genre	price
102	1984	George Owell	Dystopian	12.41
105	The hunt of red October	Tome clynse	Fiction	13.09
104	The Diary of a Young Gir	Anne Frank	History	13.88
103	To Kill a Mockingbird	Harper Lee	Fiction	15.00
NULL	NULL	NULL	NULL	NULL

19. Sort members by name in alphabetical order.

```
102   /*19*/
103 • select *
104   from members
105   order by member_name asc;
```

Result Grid | Filter Rows: | Edit:

member_id	member_name	membership_date
205	Franklin	2024-10-21
202	Harry	2024-01-01
210	Jane Doe	2024-01-01
203	Michel	2024-01-10
204	Trevor	2024-02-01
NULL	NULL	NULL

20. Find the top 5 most expensive books.

```
111    /*20*/
112    select title,price
113    from books
114    order by price desc
115    limit 5;
```

Result Grid | Filter Rows:

title	price
Karma Bhumi	16.09
Godhan	15.09
To Kill a Mockingbird	15.00
The Diary of a Young Gir	13.88
The hunt of red October	13.09

21. . Find members whose names start with 'J'.

```
117    /*21*/
118    select member_name
119    from members
120    where member_name like 'J%';
121
122
123
```

Result Grid | Filter Rows: | Export

member_name
Jane Doe

22. Find books with prices between 5 and 20.

```
122    /*22*/
123    select title
124    from books
125    where price>5
126    and price<20;
127    select title
128    from books where price between 5 and 20;
```

Result Grid | Filter Rows: | Export: | Wrap

title
1984
To Kill a Mockingbird
The Diary of a Young Gir
The hunt of red October
Godhan
Karma Bhumi

23. Find members who have borrowed at least one book

```
130    /*23*/
131 •  select distinct m.member_id, m.member_name
132    from members m
133    inner join borrowed_books b on m.member_id=b.member_id;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

member_id	member_name
202	Harry
210	Jane Doe

24. Find books that have not been borrowed yet.

```
135    /*24*/
136 •  select book_id,title,author,genre
137    from books
138    where book_id not in (select distinct book_id from borrowed_books);
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap C

book_id	title	author	genre
105	The hunt of red October	Tome clynse	Fiction
106	Godhan	Munshi Premchand	Drama
1056	Karma Bhumi	Munshi Premchand	Drama
NULL	NULL	NULL	NULL

25. Find the total amount spent on borrowed books by each member (considering book price)

```
140    /*25*/
141 •  select m.member_id,m.member_name,
142    sum(b.price)
143    as total_amount_spend
144    from members m
145    join borrowed_books bb on m.member_id=bb.member_id
146    join books b on bb.book_id=b.book_id group by m.member_id,m.member_name;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

member_id	member_name	total_amount_spend
202	Harry	26.29
210	Jane Doe	15.00