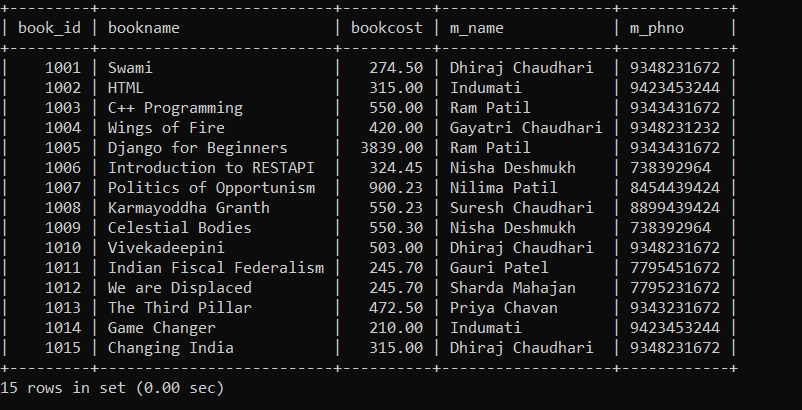
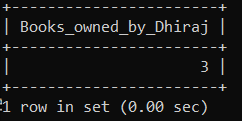
1. Display Display Book\_id, bookname,cost,member name and phno.

mysql> select book\_id,bookname,bookcost,m\_name,m\_phno from books inner join member on books.m\_id=member.m\_id;



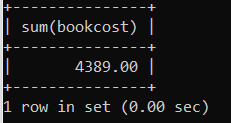
1. Write a query to count the number of books owned by Dhiraj Chaudhari

mysql> select count(book\_id) as Books\_owned\_by\_Dhiraj from books where m\_id=(select m\_id from member where m\_name="Dhiraj Chaudhari");



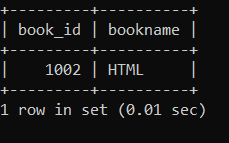
3. Write a query to display sum of cost of all the books issued by 'Ram Patil'.

mysql> select sum(bookcost) from member,books where books.m\_id=member.m\_id and m\_name='Ram Patil';



4. Write a query to display the book code, book title of the books which are issued on the date 25th May 2021 (inner join)

mysql> SELECT books.book\_id,books.bookname FROM books INNER JOIN issue ON books.Book\_id=issue.book\_id where issue.issue\_date='2021-05-25';



5. Write a query to display the member id, member name, address of members with the total fine paid by them with alias name “Fine\_Amount”. (inner join)

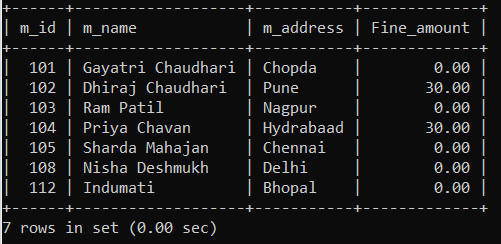
mysql> select member.m\_id,m\_name,m\_address,sum(issue.fine) as Fine\_amount

-> from member

-> INNER JOIN issue ON

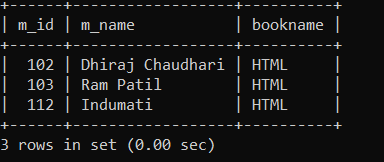
-> member.m\_id=issue.m\_id

-> group by issue.m\_id;



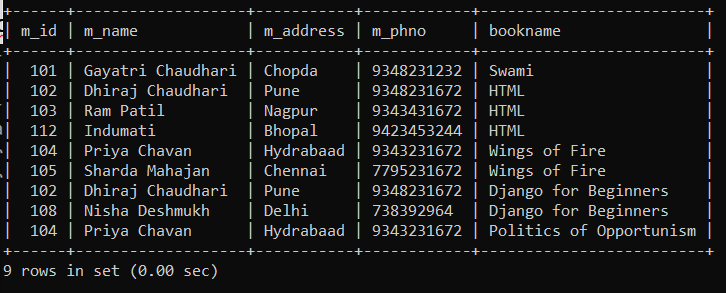
6.Write a query to display list of all members who have issued the book “HTML”.

mysql> select member.m\_id,m\_name,bookname from member,books,issue where member.m\_id=issue.m\_id and books.book\_id=issue.book\_id and bookname="HTML";



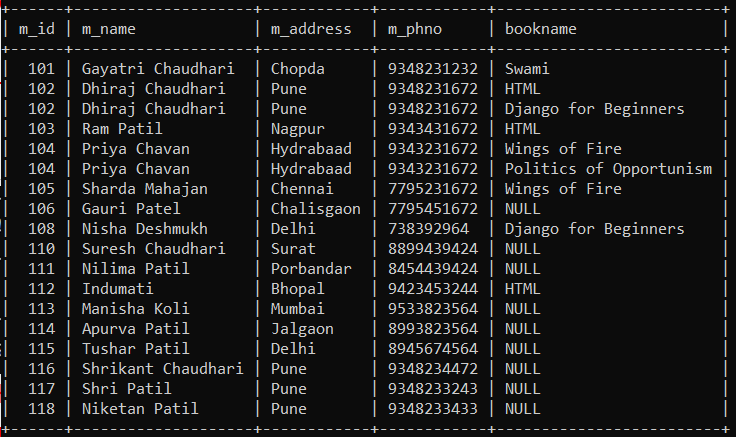
7. List the member details along with the book names they have issued.

mysql> select member.m\_id,m\_name,m\_address ,m\_phno,bookname from member inner JOIN issue ON member.m\_id=issue.m\_id inner JOIN books ON issue.book\_id=Books.book\_id;



8. Display all members and any books they might have have issued (use left and right join)

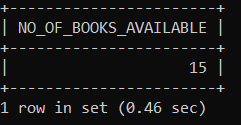
mysql> select member.m\_id,m\_name,m\_address ,m\_phno,bookname from member LEFT JOIN issue ON member.m\_id=issue.m\_id LEFT JOIN books ON issue.book\_id=Books.book\_id;



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

“NO\_OF\_BOOKS\_AVAILABLE”

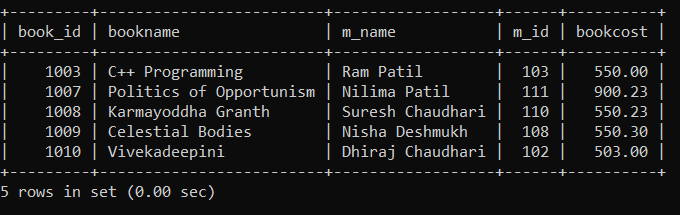
mysql> SELECT COUNT(BOOK\_ID) AS NO\_OF\_BOOKS\_AVAILABLE FROM BOOKS;



10. Find those books whose cost exists between 500 and 2000. Return bookid, book name,member

name,mem id.

mysql> SELECT book\_id,bookname,m\_name,books.m\_id,bookcost from books inner JOIN member where books.m\_id=member.m\_id AND bookcost BETWEEN 500 AND 2000;

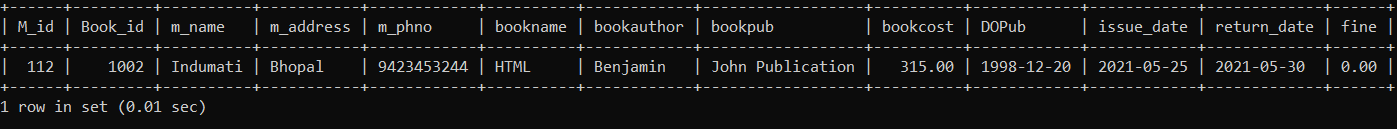


11. Write a SQL statement to make a join on the tables books,members and issue in such a form

that the same column of each table will appear once and only the relational rows will

come.(natural join)

mysql> SELECT \* FROM MEMBER NATURAL JOIN BOOKS NATURAL JOIN ISSUE;

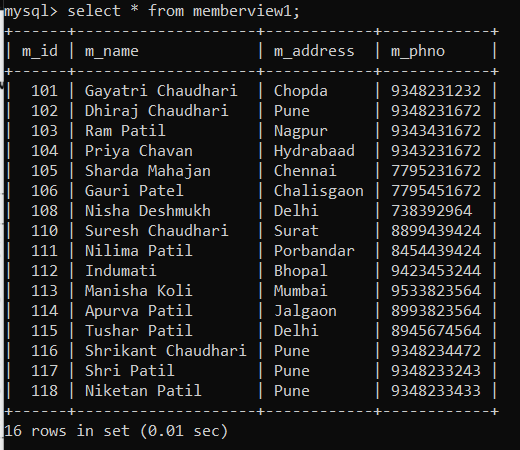


12. Create a view to access m\_id,m\_name,m\_address,m\_phno. Find out whether the view is an

updatable view.

mysql> create view memberview1 as select m\_id,m\_name,m\_address,m\_phno from member;

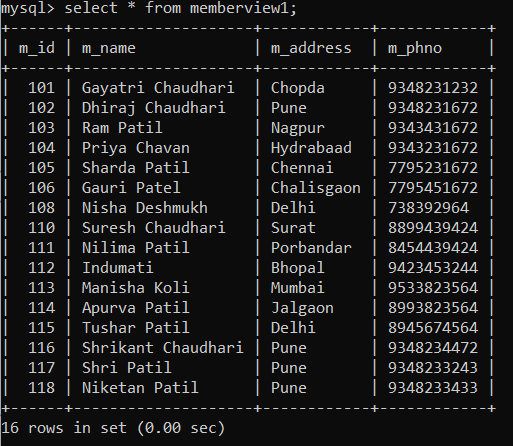
Query OK, 0 rows affected (0.03 sec)



mysql> update memberview1 set m\_name="Sharda Patil" where m\_name="Sharda Mahajan";

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

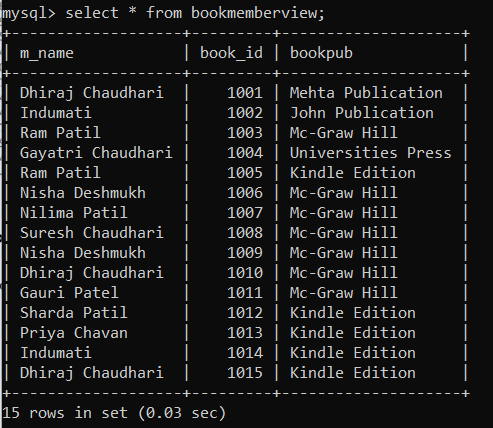


Yes, it is a updatable view.

13. Create a view to access m\_name,book\_id and bookpub. Find out whether the view is an updatable view.

mysql> create view bookmemberview as select member.m\_name,books.book\_id,books.bookpub from member,books where member.m\_id=books.m\_id;

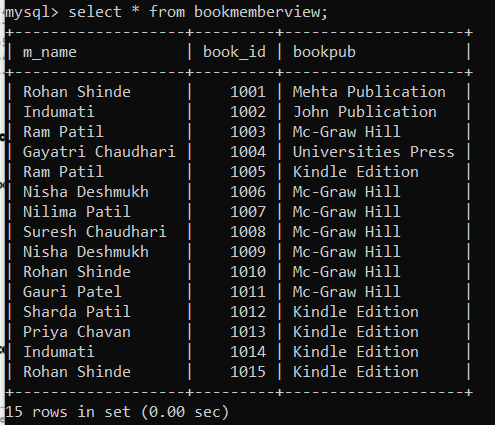
Query OK, 0 rows affected (0.01 sec)



mysql> update bookmemberview set m\_name="Rohan Shinde" where book\_id=1001;

Query OK, 1 row affected (0.01 sec)

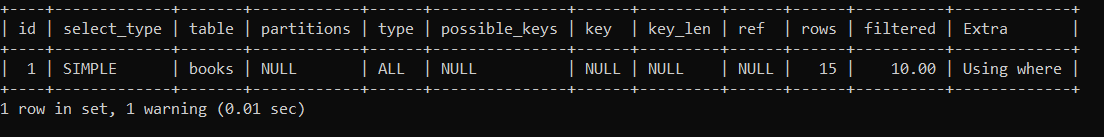
Rows matched: 1 Changed: 1 Warnings: 0



Yes, it is a updatable view.

14. Create suitable index on books table and find the performance improvement

mysql> explain select bookcost from books where bookname="Swami";

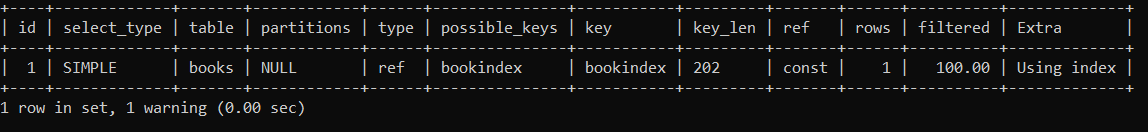


mysql> create index bookindex on books(bookname,bookcost);

Query OK, 0 rows affected (0.09 sec)

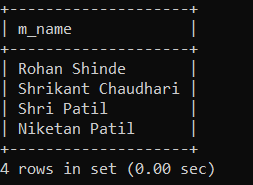
Records: 0 Duplicates: 0 Warnings: 0

mysql> explain select bookcost from books where bookname="Swami";



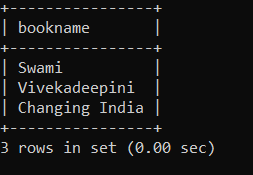
15. Display list of all members who live in the same city as 'Rohan Shinde”.(subquery)

mysql> select m\_name from member where m\_address=(select m\_address from member where m\_name='Rohan Shinde');



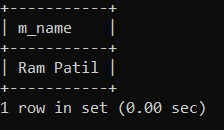
16. Write a query that uses sub query to obtain all the books owned by 'Rohan Shinde'

mysql> select bookname from books where m\_id=(select m\_id from member where m\_name='Rohan Shinde');



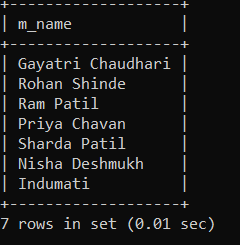
17. Display the name of member who has paid highest fine for the book.(subquery)

mysql> select m\_name from member where m\_id=(select m\_id from issue where fine=(select max(fine) from issue));



18. Display members who have issued books (subquery-use IN)

mysql> select m\_name from member where m\_id in (select m\_id from issue);



19. Display the list of members id who are members but they have not issued any book. (subquery-

NOT IN)

mysql> select m\_name from member where m\_id not in (select m\_id from issue);

