-- 1. Display all the books in the library.

SELECT \* FROM books;

-- 2. Display all the authors in the library.

SELECT \* FROM authors;

-- 3. Display all the users in the library

SELECT \* FROM users;

-- 4. Display all the borrowed books.

SELECT \* FROM borrowed\_books;

-- 5. Display all the books borrowed by a particular user.

SELECT books.\*

FROM books

INNER JOIN borrowed\_books ON books.book\_id = borrowed\_books.book\_id

WHERE borrowed\_books.user\_id = 1;

-- 6. Display all the books written by a particular author.

SELECT \* FROM books WHERE author\_id = 1;

-- 7. Display the number of available copies for a particular book

SELECT b.quantity - COUNT(\*) as available\_copies

FROM borrowed\_books bb

JOIN books b ON bb.book\_id = b.book\_id

WHERE bb.book\_id = 2 AND bb.return\_date IS NULL;

-- 8. Add a new book to the library.

INSERT INTO books (book\_id,title, author\_id, publisher, publish\_date, quantity)

VALUES (5,'Wings of fire',2, 'Sapna Book' , '2001-01-21', 10);

-- 9. Update the quantity of a book in the library

UPDATE books SET quantity = 12 WHERE book\_id = 2;

-- 10. Delete a book from the library.

DELETE FROM books WHERE book\_id = 1;

-- 11.Add a new user to the library

INSERT INTO users (user\_id,username, password, email, full\_name, address, phone\_number)

VALUES (4, 'Allen','password','allen@example.com', 'Allen', '564 Main St.','555-657' );

-- 12. Update the password of a user.

UPDATE users SET password = 'allen@123' WHERE user\_id = 4;

-- 13. Delete a user from the library

DELETE FROM users WHERE user\_id = 2;

-- 14. Borrow a book

INSERT INTO borrowed\_books (borrow\_id,user\_id, book\_id, borrow\_date) VALUES (4,1, 1, '2023-02-26');

-- 15. Return a book

UPDATE borrowed\_books SET return\_date = Null WHERE borrow\_id = 4;