

-- 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;
```