# SQL TASK 3 - Muhammad Baqiel

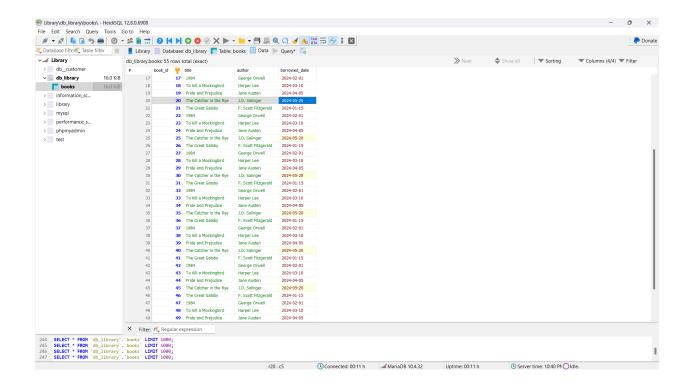
### Create the Database

```
CREATE DATABASE db_library;
```

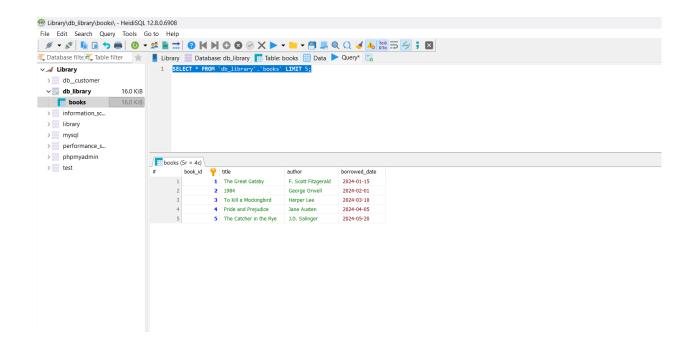
```
CREATE TABLE books (
book_id INT AUTO_INCREMENT PRIMARY KEY,
title VARCHAR(255),
author VARCHAR(255),
borrowed_date DATE
);
```

```
INSERT INTO books (title, author, borrowed_date)
VALUES
('The Great Gatsby', 'F. Scott Fitzgerald', '2024-01-15'),
('1984', 'George Orwell', '2024-02-01'),
('To Kill a Mockingbird', 'Harper Lee', '2024-03-10'),
('Pride and Prejudice', 'Jane Austen', '2024-04-05'),
```

# ('The Catcher in the Rye', 'J.D. Salinger', '2024-05-20');

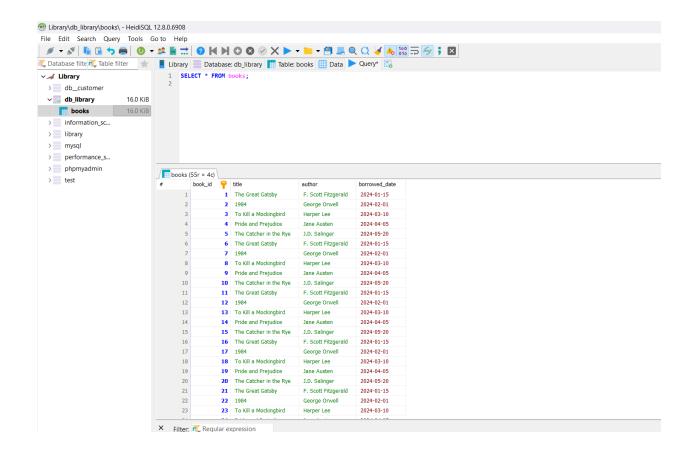


SELECT \* FROM `db\_library`.`books` LIMIT 5;

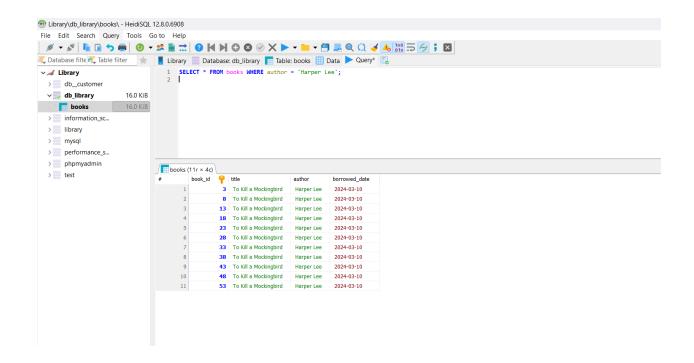


# **Query Operations**

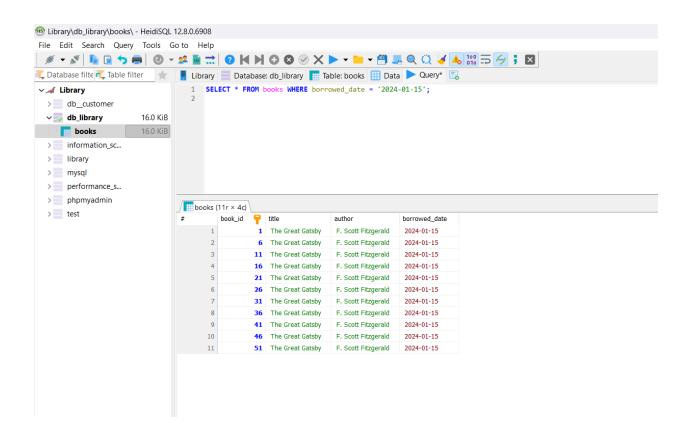
SELECT \* FROM books;



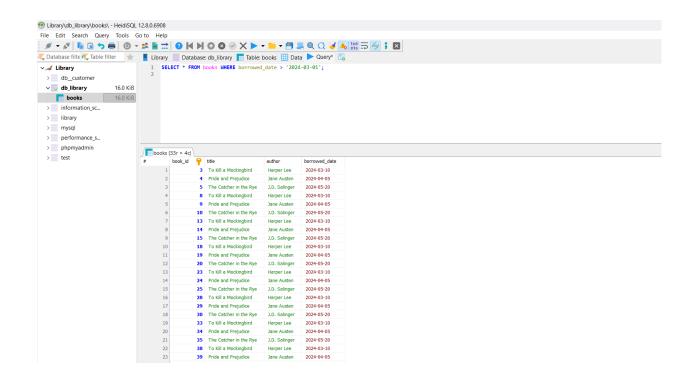
SELECT \* FROM books WHERE author = 'Harper Lee';



SELECT \* FROM books WHERE borrowed\_date = '2024-01-15';

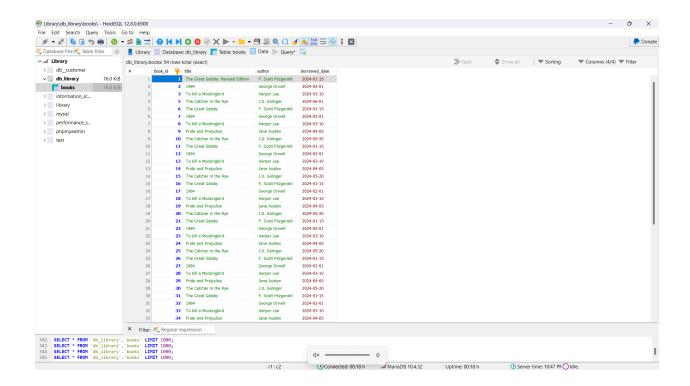


SELECT \* FROM books WHERE borrowed\_date > '2024-03-01';

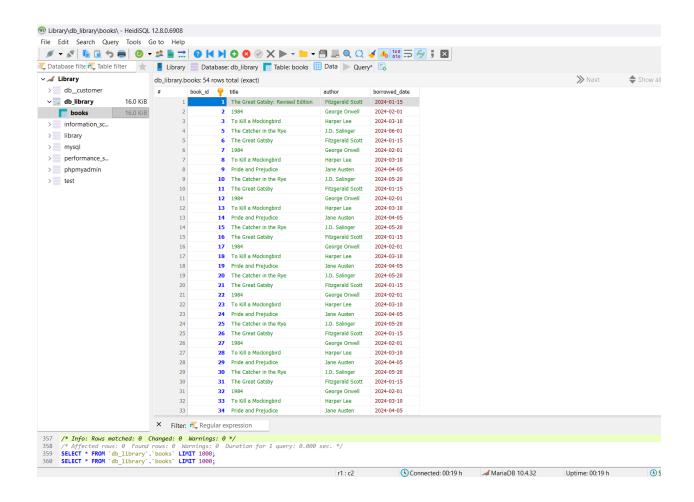


#### **Data Manipulation**

UPDATE books
SET title = 'The Great Gatsby: Revised Edition'
WHERE book\_id = 1;



UPDATE books
SET author = 'Fitzgerald Scott'
WHERE author = 'F. Scott Fitzgerald';



#### **UPDATE** books

SET borrowed date = CASE

WHEN book\_id = 2 THEN (SELECT borrowed\_date FROM books WHERE book id = 3)

WHEN book\_id = 3 THEN (SELECT borrowed\_date FROM books WHERE book\_id = 2) END

WHERE book\_id IN (2, 3);

