

SQL TASK - QAIYS INSYIRAH

Create the Database

```
CREATE DATABASE library;
USE library;

CREATE TABLE books (
  book_id INT AUTO_INCREMENT PRIMARY KEY,
  title VARCHAR(255) NOT NULL,
  author VARCHAR(255) NOT NULL,
  borrowed_date DATE NOT NULL
);

INSERT INTO books (title, author, borrowed_date)
VALUES
('To Kill a Mockingbird', 'Harper Lee', '2024-01-10'),
('1984', 'George Orwell', '2024-01-15'),
('The Great Gatsby', 'F. Scott Fitzgerald', '2024-01-20'),
('Moby Dick', 'Herman Melville', '2024-02-01'),
('Pride and Prejudice', 'Jane Austen', '2024-02-10');
```

books (5r × 4c)					
#	book_id		title	author	borrowed_date
1		1	To Kill a Mockingbird	Harper Lee	2024-01-10
2		2	1984	George Orwell	2024-01-15
3		3	The Great Gatsby	F. Scott Fitzgerald	2024-01-20
4		4	Moby Dick	Herman Melville	2024-02-01
5		5	Pride and Prejudice	Jane Austen	2024-02-10

Query Operations

```
SELECT * FROM books;

SELECT * FROM books WHERE author = 'George Orwell';

SELECT * FROM books WHERE borrowed_date = '2024-01-15';
```

books (1r × 4c)					
#	book_id		title	author	borrowed_date
1		2	1984	George Orwell	2024-01-15

Data Manipulation

UPDATE books SET borrowed_date = '2024-03-01' WHERE book_id = 1;

library.books: 12 rows to [Next](#) [Show all](#) | [Sorting](#) [Columns \(4/4\)](#) [Filter](#)


#	book_id	title	author	borrowed_date
1	1	To Kill a Mockingbird	Harper Lee	2024-03-01
2	2	1984	George Orwell	2024-01-15
3	3	The Great Gatsby	F. Scott Fitzgerald	2024-01-20
4	4	Moby Dick	Herman Melville	2024-02-01
5	6	Pride and Prejudice	Jane Austen	2024-02-10
6	7	Pride and Prejudice	Jane Austen	2024-02-10
7	8	To Kill a Mockingbird	Harper Lee	2024-01-10
8	9	1984	George Orwell	2024-01-15
9	10	The Great Gatsby	F. Scott Fitzgerald	2024-01-20
10	11	Moby Dick	Herman Melville	2024-02-01
11	12	Pride and Prejudice	Jane Austen	2024-02-10
12	13	Pride and Prejudice	Jane Austen	2024-02-10

DELETE FROM books WHERE book_id = 9;

library.books: 11 rows to [Next](#) [Show all](#) | [Sorting](#) [Columns \(4/4\)](#) [Filter](#)

#	book_id	title	author	borrowed_date
1	1	To Kill a Mockingbird	Harper Lee	2024-03-01
2	2	1984	George Orwell	2024-01-15
3	3	The Great Gatsby	F. Scott Fitzgerald	2024-01-20
4	4	Moby Dick	Herman Melville	2024-02-01
5	6	Pride and Prejudice	Jane Austen	2024-02-10
6	7	Pride and Prejudice	Jane Austen	2024-02-10
7	8	To Kill a Mockingbird	Harper Lee	2024-01-10
8	10	The Great Gatsby	F. Scott Fitzgerald	2024-01-20
9	11	Moby Dick	Herman Melville	2024-02-01
10	12	Pride and Prejudice	Jane Austen	2024-02-10
11	13	Pride and Prejudice	Jane Austen	2024-02-10

INSERT INTO books (title, author, borrowed_date)
VALUES ('dolly the sheep', 'class 1k4', '2024-02-10');

#	book_id		title	author	borrowed_date
1		1	To Kill a Mockingbird	Harper Lee	2024-03-01
2		2	1984	George Orwell	2024-01-15
3		3	The Great Gatsby	F. Scott Fitzgerald	2024-01-20
4		4	Moby Dick	Herman Melville	2024-02-01
5		6	Pride and Prejudice	Jane Austen	2024-02-10
6		7	Pride and Prejudice	Jane Austen	2024-02-10
7		8	To Kill a Mockingbird	Harper Lee	2024-01-10
8		10	The Great Gatsby	F. Scott Fitzgerald	2024-01-20
9		11	Moby Dick	Herman Melville	2024-02-01
10		12	Pride and Prejudice	Jane Austen	2024-02-10
11		13	Pride and Prejudice	Jane Austen	2024-02-10
12		14	dolly the sheep	class 1k4	2024-02-10