

```
CREATE DATABASE sample_library;
```

```
USE sample_library;
```

```
CREATE TABLE books (  
    id INT AUTO_INCREMENT PRIMARY KEY,  
    title VARCHAR(255) NOT NULL,  
    author VARCHAR(255),  
    genre VARCHAR(100),  
    page_count INT,  
    published_year INT  
);
```

```
INSERT INTO books (title, author, genre, page_count, published_year) VALUES  
( 'The Hobbit', 'J.R.R. Tolkien', 'fantasy', 310, 1937),  
( '1984', 'George Orwell', 'dystopian', 328, 1949),  
( 'Harry Potter and the Sorcerer's Stone', 'J.K. Rowling', 'fantasy', 309, 1997),  
( 'To Kill a Mockingbird', 'Harper Lee', 'classic', 281, 1960),  
( 'The Great Gatsby', 'F. Scott Fitzgerald', 'classic', 180, 1925),  
( 'A Game of Thrones', 'George R.R. Martin', 'fantasy', 694, 1996);
```

```
SELECT * FROM books;
```

```
SELECT title, author  
FROM books  
WHERE genre = 'fantasy';
```

```
SELECT COUNT(*) AS total_books FROM books;
```

```
SELECT SUM(page_count) AS total_pages FROM books;
```

```
SELECT MIN(page_count) AS min_pages, MAX(page_count) AS max_pages FROM books;
```

```
SELECT *  
FROM books  
ORDER BY title ASC  
LIMIT 5;
```

```
SELECT *  
FROM books  
WHERE genre = 'fantasy' AND page_count > 300;
```

```
SELECT genre, COUNT(*) AS book_count  
FROM books  
GROUP BY genre;
```

```
SELECT genre, COUNT(*) AS book_count  
FROM books  
GROUP BY genre  
HAVING COUNT(*) > 5;
```

```
CREATE TABLE customers (  
    customer_id INT PRIMARY KEY,  
    name VARCHAR(255),  
    email VARCHAR(255) UNIQUE,  
    phone_number CHAR(10)  
);
```

```
INSERT INTO customers (customer_id, name, email, phone_number) VALUES
(1, 'John Doe', 'john.doe@example.com', '1234567890'),
(2, 'Jane Smith', 'jane.smith@example.com', '0987654321'),
(3, 'Alice Johnson', 'alice.johnson@example.com', NULL);
```

```
UPDATE customers
SET email = 'new_email@example.com'
WHERE customer_id = 1;
```

```
DELETE FROM customers
WHERE phone_number IS NULL;
```

```
ALTER TABLE customers
ADD city VARCHAR(255);
```

```
SELECT * FROM customers;
```

	id	title	author	genre	page_count	published_year
▶	1	The Hobbit	J.R.R. Tolkien	fantasy	310	1937
	2	1984	George Orwell	dystopian	328	1949
	3	Harry Potter and the Sorcerer's Stone	J.K. Rowling	fantasy	309	1997
	4	To Kill a Mockingbird	Harper Lee	classic	281	1960
	5	The Great Gatsby	F. Scott Fitzgerald	classic	180	1925
	6	A Game of Thrones	George R.R. Martin	fantasy	694	1996
*	NULL	NULL	NULL	NULL	NULL	NULL

	title	author
▶	The Hobbit	J.R.R. Tolkien
	Harry Potter and the Sorcerer's Stone	J.K. Rowling
	A Game of Thrones	George R.R. Martin

	total_books
▶	6

	total_pages
▶	2102

Result Grid			Filter Rows
	min_pages	max_pages	
▶	180	694	

	id	title	author	genre	page_count	published_year
▶	2	1984	George Orwell	dystopian	328	1949
	6	A Game of Thrones	George R.R. Martin	fantasy	694	1996
	3	Harry Potter and the Sorcerer's Stone	J.K. Rowling	fantasy	309	1997
	5	The Great Gatsby	F. Scott Fitzgerald	classic	180	1925
	1	The Hobbit	J.R.R. Tolkien	fantasy	310	1937
*	NULL	NULL	NULL	NULL	NULL	NULL

Result Grid			Filter Rows:	Edit:	Export/Import:	Wrap Cell Content:
	id	title	author	genre	page_count	published_year
▶	1	The Hobbit	J.R.R. Tolkien	fantasy	310	1937
	3	Harry Potter and the Sorcerer's Stone	J.K. Rowling	fantasy	309	1997
	6	A Game of Thrones	George R.R. Martin	fantasy	694	1996
*	NULL	NULL	NULL	NULL	NULL	NULL

	genre	book_count
▶	fantasy	3
	dystopian	1
	classic	2

	genre	book_count
--	-------	------------

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

	customer_id	name	email	phone_number	city
▶	1	John Doe	new_email@example.com	1234567890	NULL
	2	Jane Smith	jane.smith@example.com	0987654321	NULL
	3	Alice Johnson	alice.johnson@example.com	NULL	NULL
*	NULL	NULL	NULL	NULL	NULL

Output			Message	Duration / Fetch
#	Time	Action		
1	19:31:52	CREATE DATABASE sample_library	1 row(s) affected	0.016 sec
2	19:31:55	USE sample_library	0 row(s) affected	0.000 sec
3	19:32:03	CREATE TABLE books (id INT AUTO_INCREMENT PRIMARY KEY, title VARCHAR(255) NOT NULL, author VARCHAR(255), genre VARCHAR(255), page_count INT, published_year INT)	0 row(s) affected	0.032 sec
4	19:32:10	INSERT INTO books (title, author, genre, page_count, published_year) VALUES ('The Hobbit', 'J.R.R. Tolkien', 'fantasy', 310, 1937), ('1984', 'George Orwell', 'dystopian', 328, 1949), ('A Game of Thrones', 'George R.R. Martin', 'fantasy', 694, 1996), ('Harry Potter and the Sorcerer's Stone', 'J.K. Rowling', 'fantasy', 309, 1997), ('The Great Gatsby', 'F. Scott Fitzgerald', 'classic', 180, 1925)	6 row(s) affected Records: 6 Duplicates: 0 Warnings: 0	0.000 sec
5	19:32:43	SELECT * FROM books LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec
6	19:33:11	SELECT title, author FROM books WHERE genre = 'fantasy' LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
7	19:33:19	SELECT COUNT(*) AS total_books FROM books	1 row(s) returned	0.015 sec / 0.000 sec
8	19:33:26	SELECT SUM(page_count) AS total_pages FROM books	1 row(s) returned	0.016 sec / 0.000 sec
9	19:33:33	SELECT MIN(page_count) AS min_pages, MAX(page_count) AS max_pages FROM books	1 row(s) returned	0.000 sec / 0.000 sec
10	19:33:41	SELECT * FROM books ORDER BY title ASC LIMIT 5	5 row(s) returned	0.000 sec / 0.000 sec
11	19:33:49	SELECT * FROM books WHERE genre = 'fantasy' AND page_count > 300 LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
12	19:36:15	SELECT genre, COUNT(*) AS book_count FROM books GROUP BY genre LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
13	19:36:30	SELECT genre, COUNT(*) AS book_count FROM books GROUP BY genre HAVING COUNT(*) > 5 LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
14	19:37:05	SELECT b.title, a.author_name FROM books b INNER JOIN authors a ON b.author_id = a.author_id LIMIT 0, 1000	Error Code: 1146. Table 'sample_library.authors' doesn't exist	0.016 sec
15	19:37:09	SELECT b.title, a.author_name FROM books b LEFT JOIN authors a ON b.author_id = a.author_id LIMIT 0, 1000	Error Code: 1146. Table 'sample_library.authors' doesn't exist	0.000 sec
16	19:37:11	SELECT b.title, a.author_name FROM books b RIGHT JOIN authors a ON b.author_id = a.author_id LIMIT 0, 1000	Error Code: 1146. Table 'sample_library.authors' doesn't exist	0.000 sec
17	19:37:23	CREATE TABLE customers (customer_id INT PRIMARY KEY, name VARCHAR(255), email VARCHAR(255) UNIQUE, phone_number CHAR(10), city VARCHAR(100))	0 row(s) affected	0.032 sec
18	19:37:29	INSERT INTO customers (customer_id, name, email, phone_number) VALUES (1, 'John Doe', 'john.doe@example.com', '1234567890'), (2, 'Jane Smith', 'jane.smith@example.com', '0987654321')	3 row(s) affected Records: 3 Duplicates: 0 Warnings: 0	0.000 sec
19	19:37:35	UPDATE customers SET email = 'new_email@example.com' WHERE customer_id = 1	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.000 sec
20	19:37:41	DELETE FROM customers WHERE phone_number IS NULL	Error Code: 1175. You are using safe update mode and you tried to update a table without a WHERE that uses a KEY column. To disable safe mode, toggle the safe mode setting off when starting the MySQL server. See documentation for c...	0.015 sec
21	19:37:52	ALTER TABLE customers ADD city VARCHAR(100)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.016 sec
22	19:38:08	SELECT * FROM customers LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec

