

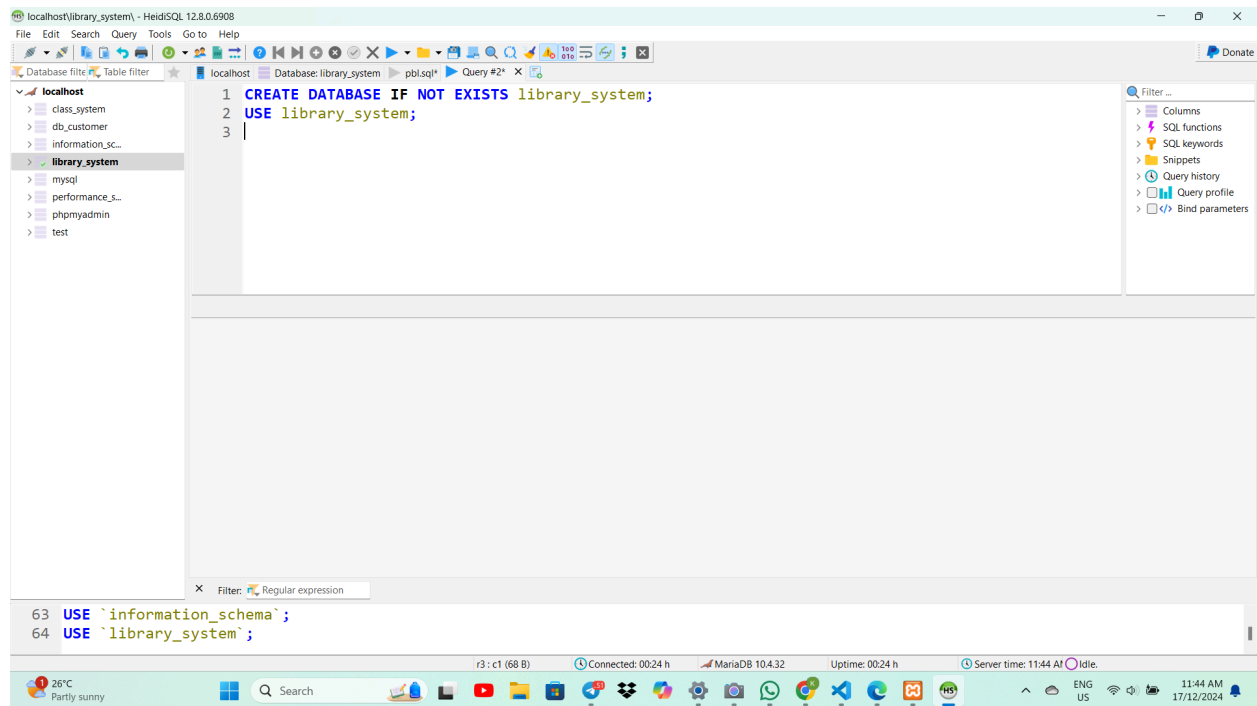
SQL-TASK

KHAIRA QAUTHAR BINTI KAMARULZAMAN

1K5

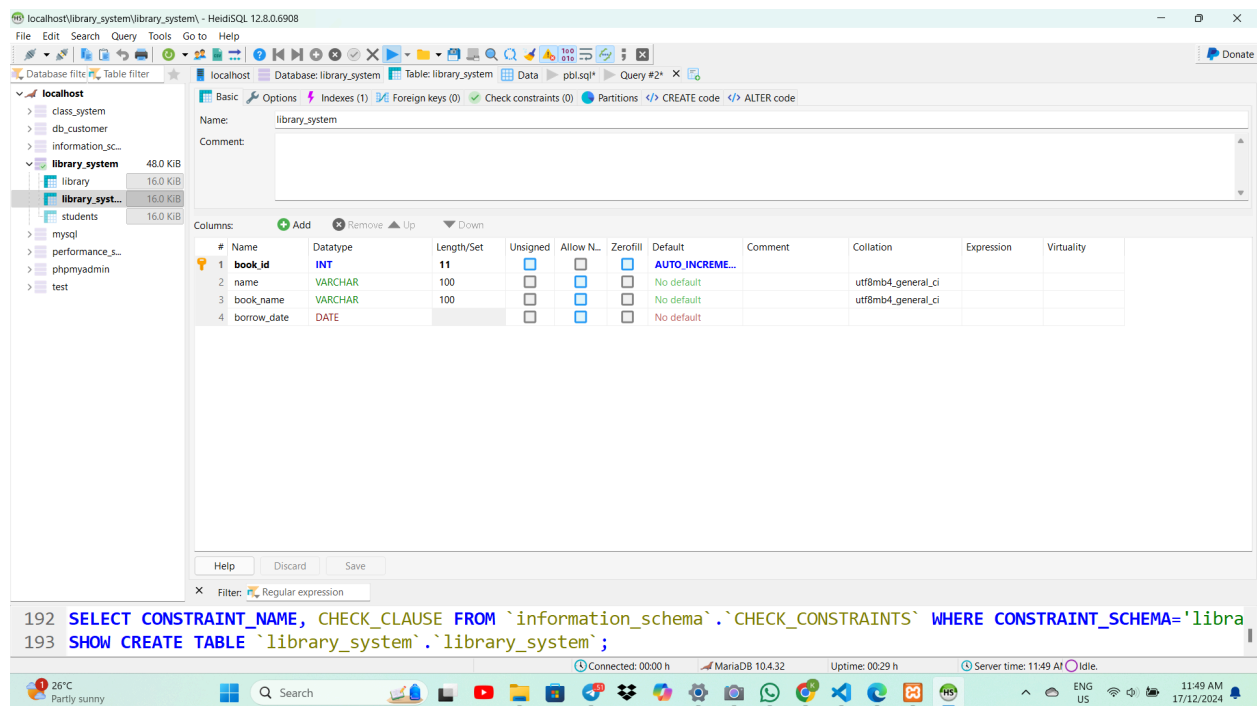
-- Create database

```
CREATE DATABASE IF NOT EXISTS library_system;  
USE library_system;
```



-- Create library system table

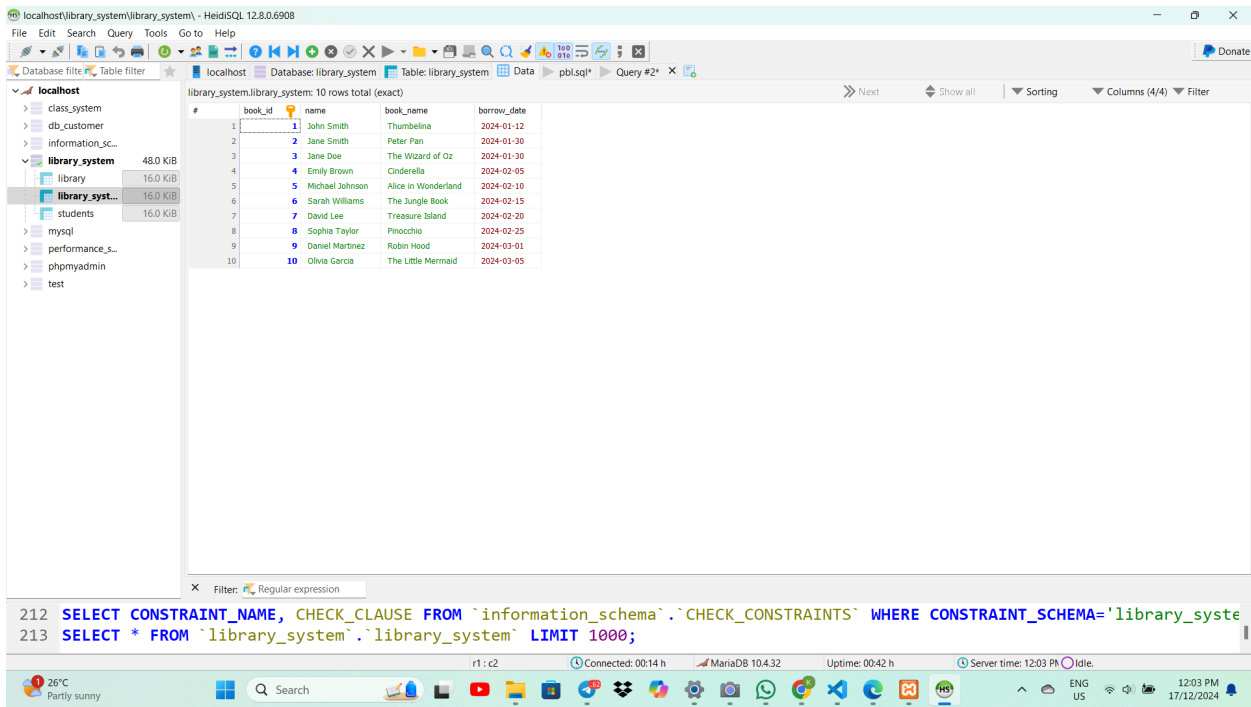
```
CREATE TABLE library_system (  
    book_id INT PRIMARY KEY AUTO_INCREMENT,  
    name VARCHAR(100) NOT NULL,  
    book_name VARCHAR(100) NOT NULL,  
    borrow_date DATE NOT NULL  
);
```



-- Add information

```
INSERT INTO library_system (book_id, name, book_name, borrow_date)  
VALUES  
(1, 'John Smith', 'Thumbelina', '2024-01-12'),  
(2, 'Jane Smith', 'Peter Pan', '2024-01-30'),  
(3, 'Jane Doe', 'The Wizard of Oz', '2024-01-30'),  
(4, 'Emily Brown', 'Cinderella', '2024-02-05'),  
(5, 'Michael Johnson', 'Alice in Wonderland', '2024-02-10');
```

('6', 'Sarah Williams', 'The Jungle Book', '2024-02-15'),
('7', 'David Lee', 'Treasure Island', '2024-02-20'),
('8', 'Sophia Taylor', 'Pinocchio', '2024-02-25'),
('9', 'Daniel Martinez', 'Robin Hood', '2024-03-01'),
('10', 'Olivia Garcia', 'The Little Mermaid', '2024-03-05');



- - Update borrow date

UPDATE library_system
SET borrow_date = '2024-03-20'
WHERE book_id = 1;

library_system.library_system: 10 rows total (exact)

#	book_id	name	book_name	borrow_d...
1	1	John Smith	Thumbelina	2024-01-12

Before

library_system.library_system: 10 rows total (exact)

#	book_id 	name	book_name	borrow_date
1	1	John Smith	Thumbelina	2024-03-20

After

-- Find books borrowed after a date

```
SELECT * FROM library_system
WHERE borrow_date > '2024-02-01';
```

 library_system (8r × 4c)				
#	book_id 	name	book_name	borrow_date
1	1	John Smith	Thumbelina	2024-03-20
2	4	Emily Brown	Cinderella	2024-02-05
3	5	Michael Johnson	Alice in Wonderland	2024-02-10
4	6	Sarah Williams	The Jungle Book	2024-02-15
5	7	David Lee	Treasure Island	2024-02-20
6	8	Sophia Taylor	Pinocchio	2024-02-25
7	9	Daniel Martinez	Robin Hood	2024-03-01
8	10	Olivia Garcia	The Little Mermaid	2024-03-05

-- Find books by name with date


```
SELECT name, borrow_date
FROM library_system
WHERE book_name = 'Alice in Wonderland';
```

 library_system (1r × 2c)		
#	name	borrow_date
1	Michael Johnson	2024-02-10

-- Delete book

```
DELETE FROM library_system
WHERE book_id = '1';
```

library_system.library_system: 9 rows total (exact)

#	book_id 	name	book_name	borrow_date
1	2	Jane Smith	Peter Pan	2024-01-30
2	3	Jane Doe	The Wizard of Oz	2024-01-30
3	4	Emily Brown	Cinderella	2024-02-05
4	5	Michael Johnson	Alice in Wonderland	2024-02-10
5	6	Sarah Williams	The Jungle Book	2024-02-15
6	7	David Lee	Treasure Island	2024-02-20
7	8	Sophia Taylor	Pinocchio	2024-02-25
8	9	Daniel Martinez	Robin Hood	2024-03-01
9	10	Olivia Garcia	The Little Mermaid	2024-03-05

-- Add book

```
INSERT INTO library_system (book_id, name, book_name, borrow_date)
VALUES ('1', 'Emma Wilson', 'Snow White', '2024-03-15');
```

library_system.library_system: 11 rows total (exact)

#	book_id 	name	book_name	borrow_date
1	1	Emma Wilson	Snow White	2024-03-15
2	2	Jane Smith	Peter Pan	2024-01-30
3	3	Jane Doe	The Wizard of Oz	2024-01-30
4	4	Emily Brown	Cinderella	2024-02-05
5	5	Michael Johnson	Alice in Wonderland	2024-02-10
6	6	Sarah Williams	The Jungle Book	2024-02-15
7	7	David Lee	Treasure Island	2024-02-20
8	8	Sophia Taylor	Pinocchio	2024-02-25
9	9	Daniel Martinez	Robin Hood	2024-03-01
10	10	Olivia Garcia	The Little Mermaid	2024-03-05