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CLASS: 1k5

TITLE: CS-SQL-TASK3 DATE: 17/12/2024

1. Creating the database

CREATE DATABASE library_database;



Create tableUSE library database;

```
CREATE TABLE books (
book_id INT AUTO_INCREMENT PRIMARY KEY,
title VARCHAR(500) NOT NULL,
author VARCHAR(500) NOT NULL,
borrowed_date DATE
);
```

#	Name	Datatype	Length/Set	Unsigned	Allow N	Zerofill	Default	Comment	Collation	Expression	Virtuality
1	book_id	INT	11				AUTO_INCREME				
2	title	VARCHAR	500				No default		utf8mb4_general_ci		
3	author	VARCHAR	500				No default		utf8mb4_general_ci		
4	borrowed date	DATE					NULL				

3. List all books

INSERT INTO books (title, author, borrowed_date) VALUES ('To Kill a Mockingbird', 'Harper Lee', '2024-02-15'), ('Pride and Prejudice', 'Jane Austen', '2024-03-10'), ('The Great Gatsby', 'F. Scott Fitzgerald', '2024-02-28'), ('Brave New World', 'Aldous Huxley', '2024-01-05'), ('Toilet-Bound Hanako-Kun', 'Aidalro', '2024-10-29');



4. List all books

SELECT * FROM books;

#	book_id	title	author	borrowed_date
	1	1 To Kill a Mockingbird	Harper Lee	2024-02-15
	2	2 Pride and Prejudice	Jane Austen	2024-03-10
	3	3 The Great Gatsby	F. Scott Fitzgerald	2024-02-28
	4	4 Brave New World	Aldous Huxley	2024-01-05
	5	5 Toilet-Bound Hanako-Kun	AidaIro	2024-10-29

5. Find books by author

SELECT book_id, title, author, borrowed_date FROM books WHERE author = 'Aidalro';



6. Find books borrowed on a specific date

SELECT book_id, title, author, borrowed_date FROM books

WHERE borrowed-date = 2024-2-28;



7. Find books borrowed after a certain date

SELECT book_id, title, author, borrowed_date FROM books WHERE borrowed_date > "2024-02-10";

#	book_id	9	title	author	borrowed_date
1		1	To Kill a Mockingbird	Harper Lee	2024-02-15
2	Ď.	2	Pride and Prejudice	Jane Austen	2024-03-10
3		3	The Great Gatsby	F. Scott Fitzgerald	2024-02-28
.4		5	Toilet-Bound Hanako-Kun	AidaIro	2024-10-29

8. Update borrowed_dateUPDATE booksSET borrowed_date = '2024-06-27'WHERE title = 'Toilet-Bound Hanako-Kun';

#	book_id	7	title	author	borrowed_date
	1	1	To Kill a Mockingbird	Harper Lee	2024-02-15
	2	2	Pride and Prejudice	Jane Austen	2024-03-10
	3	3	The Great Gatsby	F. Scott Fitzgerald	2024-02-28
	4	4	Brave New World	Aldous Huxley	2024-01-05
	5	5	Toilet-Bound Hanako-Kun	AidaIro	2024-06-27

9. Delete a book

DELETE FROM books WHERE title = "Pride and Prejudice" AND author = "Jane Austen" AND borrowed_date = '2024-03-10';

#		book_id 🥊	title	author	borrowed_date
	1	1	To Kill a Mockingbird	Harper Lee	2024-02-15
	2	3	The Great Gatsby	F. Scott Fitzgerald	2024-02-28
	3	4	Brave New World	Aldous Huxley	2024-01-05
	4	5	Toilet-Bound Hanako-Kun	AidaIro	2024-06-27

10. Re-add a book

INSERT INTO books (title, author, borrowed_date)
VALUES ('Pride and Prejudice', 'Jane Austen', '2024-03-10');

#	book_id 💡	title	author	borrowed_date
1	1	To Kill a Mockingbird	Harper Lee	2024-02-15
2	3	The Great Gatsby	F. Scott Fitzgerald	2024-02-28
3	4	Brave New World	Aldous Huxley	2024-01-05
4	5	Toilet-Bound Hanako-Kun	AidaIro	2024-06-27
5	75	Pride and Prejudice	Jane Austen	2024-03-10