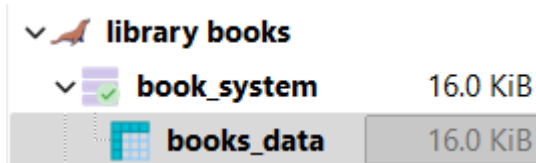


NAME: NUR ADRIANA BINTI EDRIL
 CLASS: 1K5
 SUBJECT: COMPUTER SCIENCE
 TASK: SQL TASK
 DUE DATE: 17/12/2024

1. Create database



```
-- create database
CREATE DATABASE IF NOT EXISTS book_system;
USE book_system;
```

2. Create a table

Columns: Add Remove Up Down											
#	Name	Datatype	Length/Set	Unsigned	Allow N...	Zerofill	Default	Comment	Collation	Expression	Virtuality
1	book_id	BIGINT	20	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AUTO_INCREMENT...				
2	title	VARCHAR	100	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No default		utf8mb4_general_ci		
3	author	VARCHAR	100	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No default		utf8mb4_general_ci		
4	borrowed_date	DATE		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No default				

```
-- create books table
CREATE TABLE books_data (
  book_id BIGINT PRIMARY KEY AUTO_INCREMENT,
  title VARCHAR(100) NOT NULL,
  author VARCHAR(100) NOT NULL,
  borrowed_date DATE NOT NULL
);
```

3. Insert books data

#	book_id	title	author	borrowed_date
1	1	Bagaikan Puteri	Ramlee Awang Murshid	2024-05-05
2	2	Space Adventure	Igloo Publishing	2024-06-01
3	3	Atomic Habits	James Clear	2024-06-23
4	4	Ana & Kate	Anies Hisham	2024-07-28
5	5	Kisah Menakjubkan 25 Nabi dan Rasul	Nurul Ikhsan	2024-09-16
6	6	Korean for Beginner	Sunjeong Shin	2024-10-11

```
-- add data
INSERT INTO books_data (title, author, borrowed_date)
VALUES
('Bagaikan Puteri', 'Ramlee Awang Murshid', '2024-05-05'),
('Space Adventure', 'Igloo Publishing', '2024-06-01'),
('Atomic Habits', 'James Clear', '2024-06-23'),
```

('Ana & Kate', 'Anies Hisham', '2024-07-28'),
('Kisah Menakjubkan 25 Nabi dan Rasul', 'Nurul Ikhsan', '2024-09-16'),
('Korean for Beginner', 'Sunjeong Shin', '2024-10-11');

4. List all books

#	book_id	title	author	borrowed_date
1	1	Bagaikan Puteri	Ramlee Awang Murshid	2024-05-05
2	2	Space Adventure	Igloo Publishing	2024-06-01
3	3	Atomic Habits	James Clear	2024-06-23
4	4	Ana & Kate	Anies Hisham	2024-07-28
5	5	Kisah Menakjubkan 25 Nabi dan Rasul	Nurul Ikhsan	2024-09-16
6	6	Korean for Beginner	Sunjeong Shin	2024-10-11

```
SELECT * FROM books_data;
```

5. Find book by author

#	book_id	title	author	borrowed_date
1	1	Bagaikan Puteri	Ramlee Awang Murshid	2024-10-31

```
-- find by author
```

```
SELECT * FROM books_data
WHERE author = 'Ramlee Awang Murshid';
```

6. Find book by a specific date

#	book_id	title	author	borrowed_date
1	4	Ana & Kate	Anies Hisham	2024-07-28

```
-- find by after by specific date
```

```
SELECT * FROM books_data
WHERE borrowed_date = '2024-07-28';
```

7. Find book by after certain date

#	book_id	title	author	borrowed_date
1	1	Bagaikan Puteri	Ramlee Awang Murshid	2024-10-31
2	4	Ana & Kate	Anies Hisham	2024-07-28
3	5	Kisah Menakjubkan 25 Nabi dan Rasul	Nurul Ikhsan	2024-09-16
4	6	Korean for Beginner	Sunjeong Shin	2024-10-11
5	7	Atomic Habits	James Clear	2024-06-23

```
-- find by after certain date
SELECT * FROM books_data
WHERE borrowed_date > '2024-06-01';
```

8. Update borrowed_date

#	book_id	title	author	borrowed_date
1	1	Bagaikan Puteri	Ramlee Awang Murshid	2024-10-31
2	2	Space Adventure	Igloo Publishing	2024-06-01
3	3	Atomic Habits	James Clear	2024-06-23
4	4	Ana & Kate	Anies Hisham	2024-07-28
5	5	Kisah Menakjubkan 25 Nabi dan Rasul	Nurul Ikhsan	2024-09-16
6	6	Korean for Beginner	Sunjeong Shin	2024-10-11

```
-- update book
UPDATE `books_data` SET `book_id`= 1, `title`='Bagaikan Puteri', `author`='Ramlee
Awang Murshid', `borrowed_date`='2024-10-31'
WHERE `book_id`= 1;
```

9. Delete a book

#	book_id	title	author	borrowed_date
1	1	Bagaikan Puteri	Ramlee Awang Murshid	2024-10-31
2	2	Space Adventure	Igloo Publishing	2024-06-01
3	4	Ana & Kate	Anies Hisham	2024-07-28
4	5	Kisah Menakjubkan 25 Nabi dan Rasul	Nurul Ikhsan	2024-09-16
5	6	Korean for Beginner	Sunjeong Shin	2024-10-11

```
-- delete a book
DELETE FROM books_data
WHERE title = 'Atomic Habits';
```

10. Re-add a deleted book

	book_id	title	author	borrowed_date
1	1	Bagaikan Puteri	Ramlee Awang Murshid	2024-10-31
2	2	Space Adventure	Igloo Publishing	2024-06-01
3	4	Ana & Kate	Anies Hisham	2024-07-28
4	5	Kisah Menakjubkan 25 Nabi dan Rasul	Nurul Ikhsan	2024-09-16
5	6	Korean for Beginner	Sunjeong Shin	2024-10-11
6	7	Atomic Habits	James Clear	2024-06-23

```
-- re-add a deleted book
INSERT INTO books_data (title, author, borrowed_date)
VALUES ('Atomic Habits', 'James Clear', '2024-06-23');
```

