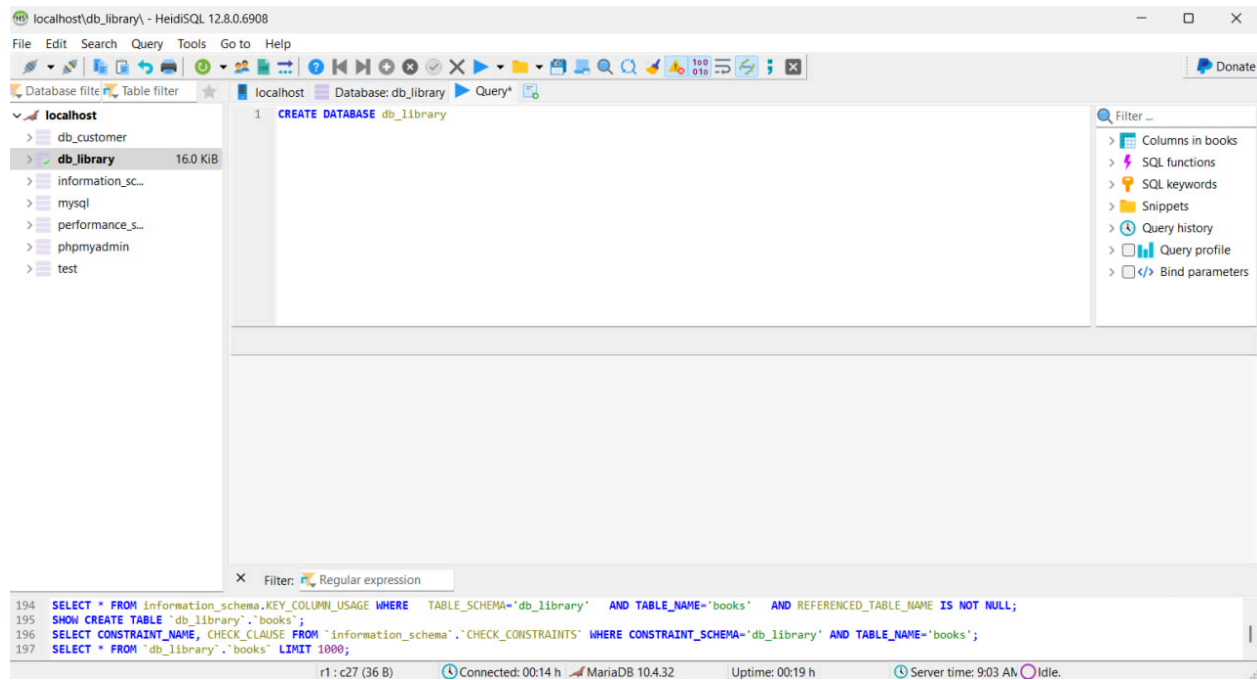


CS TASK 3

SQL TASK

CREATE DATABASE db_library



CREATE BOOKS TABLE

The screenshot shows the HeidiSQL interface with the 'books' table being created in the 'db_library' database. The table structure is defined as follows:

Column Name	Data Type	Constraints
book_id	INT	PRIMARY KEY, AUTO_INCREMENT
title	VARCHAR(255)	NOT NULL
author	VARCHAR(255)	NOT NULL
borrowed_date	DATE	

The SQL query in the editor is:

```
1 CREATE TABLE books (  
2 book_id INT PRIMARY KEY AUTO_INCREMENT,  
3 title VARCHAR(255) NOT NULL,  
4 author VARCHAR(255) NOT NULL,  
5 borrowed_date DATE  
6 );
```

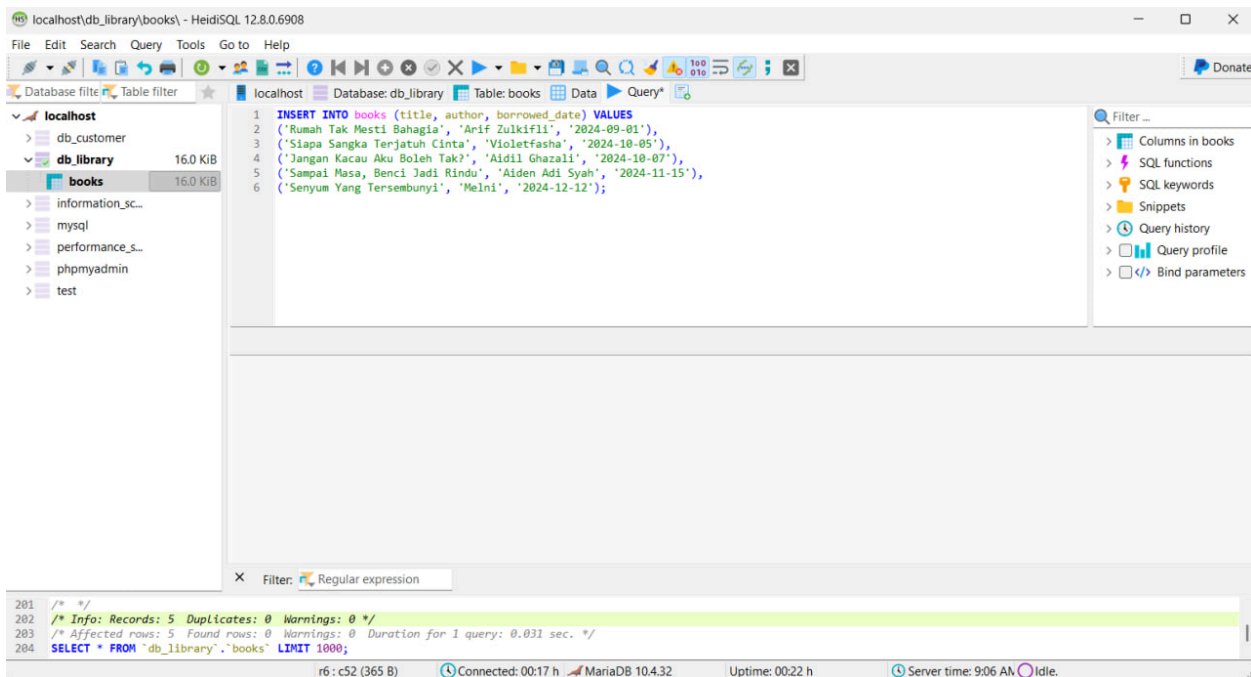
The bottom panel shows the table structure and the SQL query:

```
194 SELECT * FROM information_schema.KEY_COLUMN_USAGE WHERE TABLE_SCHEMA='db_library' AND TABLE_NAME='books' AND REFERENCED_TABLE_NAME IS NOT NULL;  
195 SHOW CREATE TABLE `db_library`.`books`;  
196 SELECT CONSTRAINT_NAME, CHECK_CLAUSE FROM `information_schema`.`CHECK_CONSTRAINTS` WHERE CONSTRAINT_SCHEMA='db_library' AND TABLE_NAME='books';  
197 SELECT * FROM `db_library`.`books` LIMIT 1000;
```

DATA ENTRY

FILL THE TABLE- BOOKS (TITLE,AUTHOR,BORROOWED DATE)

INSERT INTO books



#	book_id	title	author	borrowed_date
1	1	Rumah Tak Mesti Bahagia	Arif Zulkifli	2024-09-01
2	2	Siapa Sangka Terjatuh Cinta	Violetfasha	2024-10-05
3	3	Jangan Kacau Aku Boleh Tak?	Aidil Ghazali	2024-10-07
4	4	Sampai Masa, Benci Jadi Rindu	Aiden Adi Syah	2024-11-15
5	5	Senyum Yang Tersembunyi	Melni	2024-12-12

LIST ALL BOOKS

```
1 SELECT * FROM books;
```

#	book_id	title	author	borrowed_date
1	1	Rumah Tak Mesti Bahagia	Arif Zulkifli	2024-09-01
2	2	Siapa Sangka Terjatuh Cinta	Violetfasha	2024-10-05
3	3	Jangan Kacau Aku Boleh Tak?	Aidil Ghazali	2024-10-07
4	4	Sampai Masa, Benci Jadi Rindu	Aiden Adi Syah	2024-11-15
5	5	Senyum Yang Tersembunyi	Melni	2024-12-12

Find books by author (Example: 'Aidil Ghazali')

```
1 SELECT * FROM books
2 WHERE author = 'Aidil Ghazali';
```

#	book_id	title	author	borrowed_date
1	3	Jangan Kacau Aku Boleh Tak?	Aidil Ghazali	2024-10-07

Find books borrowed on a specific date (Example: '2024-10-05')

localhost Database: db_library Table: books Data Query*

```
1 SELECT * FROM books
2 WHERE borrowed_date = '2024-10-05';
```

#	book_id	title	author	borrowed_date
1	2	Siapa Sangka Terjatuh Cinta	Violetfasha	2024-10-05

Update borrowed_date for a specific book (Example: book_id = 3)

```
localhost Database: db_library Table: books Data Query*
1 UPDATE books
2 SET borrowed_date = '2024-10-10'
3 WHERE book_id = 3;
4
```

localhost Database: db_library Table: books Data Query*

db_library.books: 5 rows total (exact) » Next

#	book_id	title	author	borrowed_date
1	1	Rumah Tak Mesti Bahagia	Arif Zulkifli	2024-09-01
2	2	Siapa Sangka Terjatuh Cinta	Violetfasha	2024-10-05
3	3	Jangan Kacau Aku Boleh Tak?	Aidil Ghazali	2024-10-10
4	4	Sampai Masa, Benci Jadi Rindu	Aiden Adi Syah	2024-11-15
5	5	Senyum Yang Tersembunyi	Melni	2024-12-12

Delete a book (Example: book_id = 5)

```
localhost Database: db_library Table: books Data Query*
1 DELETE FROM books
2 WHERE book_id = 5;
3
```

localhost Database: db_library Table: books Data Query* [Next](#)

db_library.books: 4 rows total (exact)

#	book_id	title	author	borrowed_date
1	1	Rumah Tak Mesti Bahagia	Arif Zulkifli	2024-09-01
2	2	Siapa Sangka Terjatuh Cinta	Violetfasha	2024-10-05
3	3	Jangan Kacau Aku Boleh Tak?	Aidil Ghazali	2024-10-10
4	4	Sampai Masa, Benci Jadi Rindu	Aiden Adi Syah	2024-11-15

Re-add the deleted book

```
localhost Database: db_library Table: books Data Query*
1 INSERT INTO books (book_id, title, author, borrowed_date) VALUES
2 (5, 'Senyum Yang Tersembunyi', 'Melni', '2024-10-05');
3
```

localhost Database: db_library Table: books Data Query* [Next](#)

db_library.books: 5 rows total (exact)

#	book_id	title	author	borrowed_date
1	1	Rumah Tak Mesti Bahagia	Arif Zulkifli	2024-09-01
2	2	Siapa Sangka Terjatuh Cinta	Violetfasha	2024-10-05
3	3	Jangan Kacau Aku Boleh Tak?	Aidil Ghazali	2024-10-10
4	4	Sampai Masa, Benci Jadi Rindu	Aiden Adi Syah	2024-11-15
5	5	Senyum Yang Tersembunyi	Melni	2024-10-05