

Assignment SQL

DDL + Insert Commands

Question:

You are tasked with creating and modifying the schema for a table named "books" in a database for a small library. Follow the instructions below to create and manipulate the "books" table using MySQL:

1. Table Creation:

- Create a new database named "library_db" if it doesn't exist.
- Create a table named "books" with the following columns:
 - book_id: INT
 - title: VARCHAR(100)
 - author_id: INT
 - publication_year: INT
 - availability: BOOLEAN

2. Data Insertion:

- Insert two to three rows of sample data into the books table.

3. Table Modification:

- Add a column named "genre" to the books table to store the genre of each book.
- Change the data type of the "publication_year" column from INT to VARCHAR(4).
- Rename the column "availability" to "is_available".

4. Column Commenting:

- Add comments to describe the purpose of each column in the books table.

5. Data Truncation:

- Truncate all data from the books table to remove any existing book records.

6. Table Dropping:

- Drop the books table from the database.

7. Database Deletion:

- Finally, drop the "library_db" database to remove it entirely.

Instructions:

- Write MySQL queries to perform each of the above tasks in sequence.
- Ensure to include appropriate comments and adhere to proper SQL syntax.
- Execute the queries in the correct order to achieve the desired modifications to the "books" table and database.