

Assignment 4: Write SQL statements to CREATE a new database and tables that reflect the library schema you designed earlier. Use ALTER statements to modify the table structures and DROP statements to remove a redundant table.

SOLUTION:

```
CREATE TABLE Authors (  
    author_id INT PRIMARY KEY,  
    name VARCHAR(100) NOT NULL  
);
```

```
DROP TABLE Authors IF EXISTS RedundantTable;
```

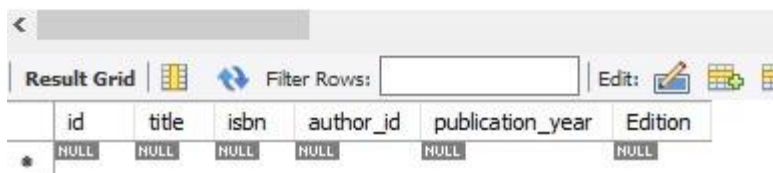
```
CREATE TABLE Members (  
    member_id INT PRIMARY KEY,  
    name VARCHAR(100) NOT NULL,  
    email VARCHAR(100) UNIQUE NOT NULL  
);
```

```
DROP TABLE Members IF EXISTS RedundantTable;
```

```
CREATE TABLE Books (  
    id INT PRIMARY KEY,
```

```
title VARCHAR(200) NOT NULL,  
isbn VARCHAR(13) UNIQUE NOT NULL,  
author_id INT NOT NULL,  
FOREIGN KEY(author_id) REFERENCES Authors(author_id),  
publication_year INT CHECK (publication_year >= 0)  
);  
  
ALTER TABLE Books ADD Edition VARCHAR(50);  
  
DROP TABLE Books IF EXISTS RedundantTable;
```

```
1 • |SELECT * FROM librarysystem.books;
```



The screenshot shows a database interface with a 'Result Grid' tab. The grid has columns for 'id', 'title', 'isbn', 'author_id', 'publication_year', and 'Edition'. A single row is displayed, with all values being NULL. The interface includes a 'Filter Rows' search bar and an 'Edit' button.

	id	title	isbn	author_id	publication_year	Edition
*	NULL	NULL	NULL	NULL	NULL	NULL