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:

```sql
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,
```
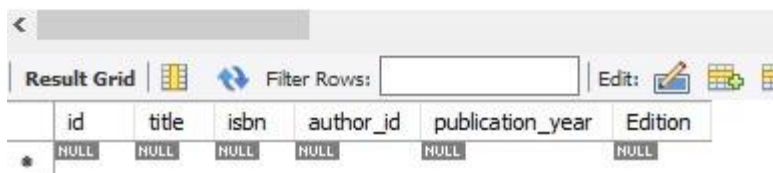
```
    title VARCHAR(200) NOT NULL,

    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;
```

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