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.

-- Create a new database

CREATE DATABASE library_management_system;

USE library_management_system;

-- Create tables

CREATE TABLE members (

   member_id INT AUTO_INCREMENT PRIMARY KEY,

   first_name VARCHAR(50) NOT NULL,

   last_name VARCHAR(50) NOT NULL,

   email VARCHAR(100) UNIQUE NOT NULL,

   phone_number VARCHAR(20),

   join_date DATE NOT NULL

);

CREATE TABLE books (

   book_id INT AUTO_INCREMENT PRIMARY KEY,

   title VARCHAR(200) NOT NULL,

   author VARCHAR(100) NOT NULL,

   publication_year YEAR,

   isbn VARCHAR(20) UNIQUE,

   genre VARCHAR(50)

);

CREATE TABLE publishers (

   publisher_id INT AUTO_INCREMENT PRIMARY KEY,

   name VARCHAR(100) NOT NULL,

```sql
    address VARCHAR(200),

    contact_email VARCHAR(100)

);


CREATE TABLE book_copies (

    copy_id INT AUTO_INCREMENT PRIMARY KEY,

    book_id INT NOT NULL,

    status VARCHAR(20) NOT NULL DEFAULT 'available',

    FOREIGN KEY (book_id) REFERENCES books(book_id)

);


CREATE TABLE issues (

    issue_id INT AUTO_INCREMENT PRIMARY KEY,

    member_id INT NOT NULL,

    copy_id INT NOT NULL,

    issue_date DATE NOT NULL,

    due_date DATE NOT NULL,

    return_date DATE,

    FOREIGN KEY (member_id) REFERENCES members(member_id),

    FOREIGN KEY (copy_id) REFERENCES book_copies(copy_id)

);


-- Modify table structures using ALTER statements

ALTER TABLE books

ADD COLUMN publisher_id INT,

ADD FOREIGN KEY (publisher_id) REFERENCES publishers(publisher_id);


ALTER TABLE members
```

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ADD COLUMN membership_type VARCHAR(20) NOT NULL DEFAULT 'regular';


-- Drop a redundant table (e.g., author_details)
DROP TABLE IF EXISTS author_details;
```