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;

