-- Create tables

CREATE TABLE User (

UserID INT AUTO\_INCREMENT PRIMARY KEY,

Fullname VARCHAR(100),

Address VARCHAR(255),

Email VARCHAR(100),

LastLoginDate DATE

);

CREATE TABLE VirtualBookshelf (

ShelfID INT AUTO\_INCREMENT PRIMARY KEY,

Name VARCHAR(50)

);

CREATE TABLE Book (

BookID INT AUTO\_INCREMENT PRIMARY KEY,

Title VARCHAR(255),

Author VARCHAR(100),

Genre VARCHAR(50),

ReleaseDate DATE,

Publisher VARCHAR(100)

);

CREATE TABLE Review (

ReviewID INT AUTO\_INCREMENT PRIMARY KEY,

Rating INT CHECK (Rating BETWEEN 1 AND 5),

ReviewText TEXT,

Date DATE,

UserID INT,

BookID INT,

FOREIGN KEY (UserID) REFERENCES User(UserID),

FOREIGN KEY (BookID) REFERENCES Book(BookID)

);

CREATE TABLE BookClub (

ClubID INT AUTO\_INCREMENT PRIMARY KEY,

ClubName VARCHAR(100),

Description TEXT

);

CREATE TABLE Tag (

TagID INT AUTO\_INCREMENT PRIMARY KEY,

TagName VARCHAR(50)

);

-- Step 2: Mapping of M:N Relationships

CREATE TABLE UserBookshelves (

UserID INT,

ShelfID INT,

BookID INT,

DateAdded DATE,

Status ENUM('read', 'currently reading', 'want to read'),

PRIMARY KEY (UserID, ShelfID, BookID),

FOREIGN KEY (UserID) REFERENCES User(UserID),

FOREIGN KEY (ShelfID) REFERENCES VirtualBookshelf(ShelfID),

FOREIGN KEY (BookID) REFERENCES Book(BookID)

);

CREATE TABLE BookshelfBooks (

ShelfID INT,

BookID INT,

PRIMARY KEY (ShelfID, BookID),

FOREIGN KEY (ShelfID) REFERENCES VirtualBookshelf(ShelfID),

FOREIGN KEY (BookID) REFERENCES Book(BookID)

);

CREATE TABLE UserReviews (

UserID INT,

ReviewID INT,

BookID INT,

PRIMARY KEY (UserID, ReviewID),

FOREIGN KEY (UserID) REFERENCES User(UserID),

FOREIGN KEY (ReviewID) REFERENCES Review(ReviewID),

FOREIGN KEY (BookID) REFERENCES Book(BookID)

);

CREATE TABLE UserFollows (

FollowerID INT,

FolloweeID INT,

PRIMARY KEY (FollowerID, FolloweeID),

FOREIGN KEY (FollowerID) REFERENCES User(UserID),

FOREIGN KEY (FolloweeID) REFERENCES User(UserID)

);

CREATE TABLE UserBookClubs (

UserID INT,

ClubID INT,

DateJoined DATE,

PRIMARY KEY (UserID, ClubID),

FOREIGN KEY (UserID) REFERENCES User(UserID),

FOREIGN KEY (ClubID) REFERENCES BookClub(ClubID)

);

CREATE TABLE BookTags (

BookID INT,

TagID INT,

PRIMARY KEY (BookID, TagID),

FOREIGN KEY (BookID) REFERENCES Book(BookID),

FOREIGN KEY (TagID) REFERENCES Tag(TagID)

);