CREATE TABLE IF NOT EXISTS bookTable (

bookId INTEGER PRIMARY KEY AUTO\_INCREMENT,

bookName VARCHAR(255) NOT NULL UNIQUE,

bookAuthor VARCHAR(255),

--Thể loại sách

bookType VARCHAR (255),

bookNums INTEGER CHECK (bookNums >= 0)

);

CREATE TABLE IF NOT EXISTS readerAccount (

userId INTEGER PRIMARY KEY AUTO\_INCREMENT,

username VARCHAR(255) NOT NULL UNIQUE,

password VARCHAR(255) NOT NULL,

--Thêm email và địa chỉ

email VARCHAR(255) NOT NULL,

address VARCHAR(255) NOT NULL,

age INTEGER

);

CREATE TABLE IF NOT EXISTS borrowedBooks (

borrowId INTEGER PRIMARY KEY AUTO\_INCREMENT,

username VARCHAR(255),

bookName VARCHAR(255),

borrowDate DATE,

returnDate DATE,

FOREIGN KEY (username) REFERENCES readerAccount(username),

FOREIGN KEY (bookName) REFERENCES bookTable(bookName),

UNIQUE(username, bookName)

);

DELIMITER //

CREATE TRIGGER limit\_borrowed\_books

BEFORE INSERT ON borrowedBooks

FOR EACH ROW

BEGIN

DECLARE bookCount INT;

-- Kiểm tra số lượng sách mượn chưa trả của người dùng

SELECT COUNT(\*) INTO bookCount

FROM borrowedBooks

WHERE userName = NEW.userName AND returnDate IS NULL;

-- Nếu số lượng sách mượn chưa trả >= 5, tạo lỗi

IF bookCount >= 5 THEN

SIGNAL SQLSTATE '45000' SET MESSAGE\_TEXT = 'Borrowing limit of 5 books reached for this user.';

END IF;

END //

DELIMITER ;

insert into booktable (bookName, bookAuthor, bookType, bookNums)

values

('To Kill a Mockingbird', 'Harper Lee', 'Fiction', 5),

('1984', 'George Orwell', 'Dystopian', 8),

('Pride and Prejudice', 'Jane Austen', 'Romance', 3),

('The Great Gatsby', 'F. Scott Fitzgerald', 'Classic', 7),

('Moby Dick', 'Herman Melville', 'Adventure', 2),

('War and Peace', 'Leo Tolstoy', 'Fiction', 4),

('The Catcher in the Rye', 'J.D. Salinger', 'Fiction', 6),

('The Hobbit', 'J.R.R. Tolkien', 'Fantasy', 10),

('Crime and Punishment', 'Fyodor Dostoevsky', 'Fiction', 9),

('The Odyssey', 'Homer', 'Epic', 1);

INSERT INTO readerAccount (username, password, email, address, age)

VALUES

('23020700', '#23020700', '23020700@vnu.edu.vn', '144 Xuan Thuy', 20),

('23020701', '#23020701', '23020701@vnu.edu.vn', '23 Cau Giay', 19),

('23020702', '#23020702', '23020702@vnu.edu.vn', '146 Duong Lang', 22),

('23020703', '#23020703', '23020703@vnu.edu.vn', '456 De La Thanh', 18),

('23020704', '#23020704', '23020704@vnu.edu.vn', '56 Ho Tung Mau', 19);