Library Data

**-- Create the LibraryData database**

CREATE DATABASE LibraryData;

**-- Switch to the LibraryData database**

USE LibraryData;

**-- Books Table**

CREATE TABLE Books (

book\_id INT PRIMARY KEY,

title VARCHAR(255),

author VARCHAR(255),

publisher VARCHAR(255),

publication\_date DATE,

ISBN VARCHAR(13)

);

**-- Journals Table**

CREATE TABLE Journals (

journal\_id INT PRIMARY KEY,

title VARCHAR(255),

publisher VARCHAR(255),

ISSN VARCHAR(8),

publication\_frequency VARCHAR(50)

);

**-- Other Media Table**

CREATE TABLE OtherMedia (

media\_id INT PRIMARY KEY,

title VARCHAR(255),

media\_type VARCHAR(50)

);

**-- Patrons Table**

CREATE TABLE Patrons (

patron\_id INT PRIMARY KEY,

name VARCHAR(255),

address VARCHAR(255),

phone\_number VARCHAR(15),

email\_address VARCHAR(255)

);

**-- Checkouts Table**

CREATE TABLE Checkouts (

checkout\_id INT PRIMARY KEY,

item\_id INT,

patron\_id INT,

checkout\_date DATE,

due\_date DATE,

FOREIGN KEY (item\_id) REFERENCES Books(book\_id) ON DELETE CASCADE,

FOREIGN KEY (item\_id) REFERENCES Journals(journal\_id) ON DELETE CASCADE,

FOREIGN KEY (item\_id) REFERENCES OtherMedia(media\_id) ON DELETE CASCADE,

FOREIGN KEY (patron\_id) REFERENCES Patrons(patron\_id)

);

**-- Insert dummy data into the Books table**

INSERT INTO Books (book\_id, title, author, publisher, publication\_date, ISBN)

VALUES

(1, 'Book1', 'Author1', 'Publisher1', '2022-01-01', '1234567890123'),

(2, 'Book2', 'Author2', 'Publisher2', '2022-02-01', '2345678901234'),

(3, 'Book3', 'Author3', 'Publisher3', '2022-03-01', '3456789012345');

**-- Insert dummy data into the Journals table**

INSERT INTO Journals (journal\_id, title, publisher, ISSN, publication\_frequency)

VALUES

(1, 'Journal1', 'JournalPublisher1', '12345678', 'Monthly'),

(2, 'Journal2', 'JournalPublisher2', '23456789', 'Quarterly'),

(3, 'Journal3', 'JournalPublisher3', '34567890', 'Bi-monthly');

**-- Insert dummy data into the OtherMedia table**

INSERT INTO OtherMedia (media\_id, title, media\_type)

VALUES

(1, 'DVD1', 'DVD'),

(2, 'CD1', 'CD'),

(3, 'Audiobook1', 'Audiobook');

**-- Insert dummy data into the Patrons table**

INSERT INTO Patrons (patron\_id, name, address, phone\_number, email\_address)

VALUES

(1, 'Patron1', 'Address1', '123-456-7890', 'patron1@example.com'),

(2, 'Patron2', 'Address2', '234-567-8901', 'patron2@example.com'),

(3, 'Patron3', 'Address3', '345-678-9012', 'patron3@example.com');

**-- Insert dummy data into the Checkouts table**

INSERT INTO Checkouts (checkout\_id, item\_id, patron\_id, checkout\_date, due\_date)

VALUES

(1, 1, 1, '2023-01-01', '2023-01-15'),

(2, 2, 2, '2023-02-01', '2023-02-15'),

(3, 3, 3, '2023-03-01', '2023-03-15');