CREATE TABLE Authors (

author\_id INT AUTO\_INCREMENT PRIMARY KEY,

name VARCHAR(255) NOT NULL,

birth\_year INT

);

CREATE TABLE Books (

book\_id INT AUTO\_INCREMENT PRIMARY KEY,

title VARCHAR(255) NOT NULL,

author\_id INT,

published\_year INT,

genre VARCHAR(255),

FOREIGN KEY (author\_id) REFERENCES Authors(author\_id)

);

CREATE TABLE Members (

member\_id INT AUTO\_INCREMENT PRIMARY KEY,

name VARCHAR(255) NOT NULL,

email VARCHAR(255) UNIQUE NOT NULL,

join\_date DATE

);

CREATE TABLE BorrowedBooks (

borrow\_id INT AUTO\_INCREMENT PRIMARY KEY,

book\_id INT,

member\_id INT,

borrow\_date DATE,

return\_date DATE,

FOREIGN KEY (book\_id) REFERENCES Books(book\_id),

FOREIGN KEY (member\_id) REFERENCES Members(member\_id)

);

INSERT INTO Authors (name, birth\_year) VALUES

('Earl Semblante', 1955),

('Earl Semblante', 1955),

('Jotaro Joestar', 1947),

('James Joestar', 1890),

('Dio Joestar', 1892);

INSERT INTO Books (title, author\_id, published\_year, genre) VALUES

('Stardust Crusader' , 1, 1997, 'Fantasy, Comedy, Supernatural'),

('Phantom Blood', 2, 1996, 'Fantasy, Comedy, Supernatural'),

('Diamond is Unbreakable', 3, 1977, 'Horror, Supernatural'),

('Battle Tendency', 4, 1934, 'Mystery, Thrill'),

('Golden Wind', 5, 1937, 'Fantasy, Comedy, Supernatural ');

INSERT INTO Members (name, email, join\_date) VALUES

('Earl', 'earl.@example.com', '2004-05-22'),

('Lee', 'lee.smith@example.com', '2009-05-22'),

('Bob', 'bob.brown@example.com', '2011-03-10');

INSERT INTO BorrowedBooks (book\_id, member\_id, borrow\_date, return\_date) VALUES

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

(2, 2, '2023-02-15', '2023-03-01'),

(3, 3, '2023-03-10', NULL);

SELECT \* FROM Books WHERE published\_year > 2000;

SELECT DISTINCT Members.name

FROM Members

JOIN BorrowedBooks ON Members.member\_id = BorrowedBooks.member\_id;

SELECT Books.title, Authors.name

FROM Books

JOIN Authors ON Books.author\_id = Authors.author\_id;

SELECT Books.title

FROM Books

JOIN BorrowedBooks ON Books.book\_id = BorrowedBooks.book\_id

WHERE BorrowedBooks.return\_date IS NULL;

SELECT Authors.name, COUNT(Books.book\_id) AS book\_count

FROM Authors

LEFT JOIN Books ON Authors.author\_id = Books.author\_id

GROUP BY Authors.name;