

Navigator

SCHEMAS

Filter objects

librarymanagement

- Tables
  - authors
    - Columns
      - author\_id
      - author\_name
    - Indexes
    - Foreign Keys
    - Triggers
  - books
    - Columns
      - book\_id
      - title
      - publication\_year
      - author\_id
      - genre\_id
    - Indexes
    - Foreign Keys
    - Triggers
  - borrowed\_books
    - Columns
      - borrow\_id
      - book\_id
      - user\_id
      - borrow\_date
      - return\_date
    - Indexes
    - Foreign Keys
    - Triggers
  - genres
    - Columns
      - genre\_id
      - genre\_name
    - Indexes
    - Foreign Keys
    - Triggers
  - users
    - Columns
      - user\_id
      - username
      - email
    - Indexes

Administration Schemas

Information

SQL File 1\*

Limit to 1000 rows

```
1  -- a. Create the Schema "LibraryManagement"
2  • CREATE SCHEMA LibraryManagement;
3  • USE LibraryManagement;
4  -- b. Create the "authors" table
5  • CREATE TABLE authors (
6      author_id INT AUTO_INCREMENT PRIMARY KEY,
7      author_name VARCHAR(255) NOT NULL
8  );
9  -- c. Create the "genres" table
10 • CREATE TABLE genres (
11     genre_id INT AUTO_INCREMENT PRIMARY KEY,
12     genre_name VARCHAR(255) NOT NULL
13 );
14
15 -- d. Create the "books" table
16 • CREATE TABLE books (
17     book_id INT AUTO_INCREMENT PRIMARY KEY,
18     title VARCHAR(255) NOT NULL,
19     publication_year YEAR NOT NULL,
20     author_id INT,
21     genre_id INT,
22     FOREIGN KEY (author_id) REFERENCES authors(author_id) ON DELETE CASCADE,
23     FOREIGN KEY (genre_id) REFERENCES genres(genre_id) ON DELETE CASCADE
24 );
25
26 -- e. Create the "users" table
27 • CREATE TABLE users (
28     user_id INT AUTO_INCREMENT PRIMARY KEY,
29     username VARCHAR(255) NOT NULL,
30     email VARCHAR(255) NOT NULL UNIQUE
31 );
32
33 -- f. Create the "borrowed_books" table
34 • CREATE TABLE borrowed_books (
35     borrow_id INT AUTO_INCREMENT PRIMARY KEY,
36     book_id INT,
37     user_id INT,
38     borrow_date DATE NOT NULL,
39     return_date DATE,
40     FOREIGN KEY (book_id) REFERENCES books(book_id) ON DELETE CASCADE,
41     FOREIGN KEY (user_id) REFERENCES users(user_id) ON DELETE CASCADE
```

Schema: librarymanagement