

Media

Attribute Name	Data Type	Description
media_id	CHAR(6)	Foreign key for either Book, Magazine, or Digital Media relations
title	VARCHAR(50)	The title of the media
publication_date	DATE	When the media was published
media_type	ENUM("Book", "Magazine", "Digital Media")	The type of media (Book, Magazine, or Digital Media)
genre	VARCHAR(20)	The genre that the media falls under

Book

Attribute Name	Data Type	Description
book_id	CHAR(6)	Primary key for uniquely identifying each book
author	VARCHAR(40)	The author of the book
ISBN	CHAR(13)	13-character ISBN given to each book

Copy

Attribute Name	Data Type	Description
copy_id	CHAR(7)	Primary key for uniquely identifying the copy
media_id	CHAR(6)	Foreign key for uniquely identifying what book, magazine, or digital media the copy is of
branch_id	CHAR(3)	Foreign key for identifying which branch the copy is being stored at
status	Enum("Available", "Reserved", "Unavailable")	Tracks the status of the copy; Available if available, Reserved if it is being held for a client, or Unavailable if the copy is checked out

Magazine

Attribute Name	Data Type	Description
magazine_id	CHAR(6)	Primary key for uniquely identifying each magazine
author	VARCHAR(40)	The author of the magazine
ISBN	CHAR(13)	13-character ISBN given to each magazine
issue_no	VARCHAR(45)	What issue of the particular magazine is it

Data media

Digital Media		
Attribute Name	Data Type	Description
dmedia_id	CHAR(6)	Primary key for uniquely identifying each piece of digital media
creator	VARCHAR(40)	The creator of the book

Clients

Attribute Name	Data Type	Description
client_id	CHAR(4)	Primary key for uniquely identifying each client
first_name	VARCHAR(20)	First name of the client
last_name	VARCHAR(20)	Last name of the client
email	VARCHAR(20)	The client's email
phone_number	VARCHAR(20)	The client's phone number
address	VARCHAR(45)	The client's address
membership	Enum("Standard", "Student", "Senior")	The client's membership type; Student for students, Senior for senior citizens, and standard for everyone else
active	BOOLEAN	Tracks whether the client is an active member or not
max_books	TINYINT	The maximum number of books the client is allowed to check out at a time
fines_due	DECIMAL(5, 2)	The dollar amount of fines that the client owes

Staff

Attribute Name	Data Type	Description
staff_id	CHAR(3)	Primary key for uniquely identifying each staff member
first_name	VARCHAR(20)	The staff member's first name
last_name	VARCHAR(20)	The staff member's last name
currently_employed	BOOLEAN	Tracks whether the staff member is currently working at a library or is a previous employee

Branch

Attribute Name	Data Type	Description
branch_id	CHAR(3)	Primary key for identifying each library branch
branch_name	VARCHAR(40)	The name of the branch
address	VARCHAR(45)	The address of the branch
year_established	YEAR	The year the branch was established

Borrow Transaction

Attribute Name	Data Type	Description
transaction_id	CHAR(7)	Primary key for uniquely identifying each transaction
client_id	CHAR(5)	Foreign key for identifying the client that was part of a given transaction
copy_id	CHAR(7)	Foreign key for identifying the copy that was checked out in a transaction
borrow_date	DATE	The date that the borrowed transaction took place
due_date	DATE	The date that the borrowed item must be returned by
return_date	DATE, NULLABLE	The date that the borrowed item was returned (NULL if the item has not been returned yet)
overdue_fine	DECIMAL(5, 2)	The fine that will be incurred if the checked-out media is not returned before the due date

Reservation

Attribute Name	Data Type	Description
reservation_id	CHAR(7)	Primary key for identifying each reservation
client_id	CHAR(5)	Foreign key for identifying which client reserved a piece of media
copy_id	CHAR(7)	Foreign key for identifying which copy was reserved
reservation_date	DATE	The date when the reservation was made