

Relations		
Name	# of Fields	Description
account	8	Contains user accounts and their related information.
contributor	2	Contributor entities contain information about a contributor to a work. This includes authors, music artists, and film directors among others.
contribution	4	Contribution represents the relationship between contributors and items
loan	6	Loan represents the relationship between a user account and an item that has been borrowed, including the dates the item was loaned out, due, and returned.
reservation	5	Reservation represents the relation between an user account, a reservation made by that user, and the item they are reserving.

Account		
Attribute Name	Data Type	Description
account_id	INT	Primary key of the account table and unique identifier of an account
first_name	\RCHAR(35)	First name of the account holder
last_name	\RCHAR(35)	Last name of the account holder
middle_initial	CHAR	Initial of the middle name of the account holder
account_type_id	INT	Foreign key to account type
restricted	BOOL	TRUE if account has borrowing restrictions placed on it
address	\RCHAR(50)	Address of the account holder
birthdate	DATE	Birth date of the account holder
email	\RCHAR(62)	E-mail of the account holder
phone_number	CHAR(10)	Phone number of the account holder
parent_id	INT	Foreign key connecting Student type accounts to their guardian's account

Account Type		
Attribute Name	Data Type	Description
account_type_id	INT	Primary key of the account type table and unique identifier of an account
account_type_name	VARCHAR(10)	Name of the account type (Adult, Student, Staff)

Contributor		
Attribute Name	Data Type	Description
contributor_id	INT	Primary key of the contributor table and unique identifier of a contributor
first_name	\RCHAR(35)	First name of the contributor
last_name	\RCHAR(35)	Last name of the contributor
middle_initial	CHAR	Initial of the middle name of the contributor

Contribution		
Attribute Name	Data Type	Description
contribution_id	INT	Primary key of the contribution table and unique identifier of a contributor
item_id	INT	Foreign key connecting contributions to an item
contributor_id	INT	Foreign key connecting a contributor to its contribution
role_id	INT	Foreign key identifying the contributor's role in producing the item

Contribution Role		
Attribute Name	Data Type	Description
role_id	INT	Primary key of the contribution role table and unique identifier of a contribution
role_name	\RCHAR(15)	Name of the contribution role

Genre		
Attribute Name	Data Type	Description
genre_id	INT	Primary key of the genre table and unique identifier of a genre
genre_name	\RCHAR(15)	Name of the genre

Item		
Attribute Name	Data Type	Description
item_id	INT	Primary key of the item table and unique identifier of an item
item_type_id	INT	Foreign key connecting an item to an item type
title	\RCHAR(50)	Title of the item
description	RCHAR(255)	Description of the item
genre_id	INT	Foreign key to genre table
ISBN	INT	ISBN of a book
publication_year	INT	Year in which item was released

publication_date	DATE	Date on which item was released
publisher	\\RCHAR(50)	Publisher of item
issue_number	INT	Issue number of a magazine
explicit	BOOL	TRUE if item is a CD with a parental advisory warning (Student type accounts cannot borrow it)
rating_id	INT	Foreign key to rating table, which describes the MPAA rating of a DVD. R or above cannot be borrowed by student. NULL if not a DVD
total_quantity	INT	Quantity of item that library owns
quantity_available	INT	Quantity of item that is currently available for borrowing
reservation_amount	INT	Amount of reservations currently placed on item

## Item Type

Attribute Name	Data Type	Description
item_type_id	INT	Primary key of the item type table and unique identifier of an item type
item_type_name	\\RCHAR(10)	Name of the item type

## Loan

Attribute Name	Data Type	Description
loan_id	INT	Primary key of the loan table and unique identifier of a loan
item_id	INT	Foreign key referencing the item being borrowed
account_id	INT	Foreign key referencing the account that borrowed the item
loan_out_date	DATE	Date the item was loaned out
due_date	DATE	Date by which the item must be returned
return_date	DATE	Date that an item is returned (nullable)

## Rating

Attribute Name	Data Type	Description
rating_id	INT	Primary key of the rating table and unique identifier of a rating
rating_name	ARCHAR(5)	Name of the rating

## Reservation

Attribute Name	Data Type	Description
reservation_id	INT	Primary key of the reservation table and unique identifier of a reservation
item_id	INT	Foreing key connecting reservations to an item
account_id	INT	Foreign key connecting reservations to an account
reservation_date	DATE	Date on which an item is reserved for loaning
reservation_end_date	DATE	Date on which a reservation expires