Lab 5 CISS 243

Adam Knitter | February 25, 2020

* denotes Primary Key
_FK denotes Foreign Key

Author

* authorId	int
firstName	varchar(64)
lastName	varchar(64)
dateOfBirth	date
dateOfDeath	date

AuthorsOfBooks

* bookId_FK	int
* authorId_FK	int

Books

* bookId	int
title	varchar(255)
yearWritten	date
synopsis	text

BookCategories

* catId_FK	int
* bookId_FK	int

Categories

* catId	int
categoryType	varchar(64)

UserReviews

* userId_FK	int
* bookId_FK	int
review	text
rating	smallint

Users

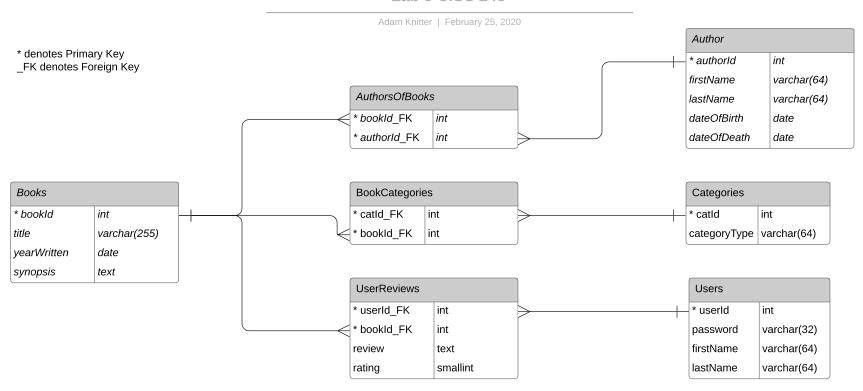|	
* userId	int
password	varchar(32)
firstName	varchar(64)
lastName	varchar(64)

AuthorsOfBooks
    bookid_FK   -> WILL cascade Deletions because a book MUST be connected to an author
    authorId_FK   -> will NOT cascade Deletions because an Author may or may not have any books in our list. In order to remove an Author, you would first need to handle all of the books attributed to them by
                              removing the corresponding books first or updating their author

BooksCategories
    bookid_FK   -> WILL cascade Deletions because a book MUST be assigned a Category
    catId_FK   -> will NOT cascade Deletions becuase a Category may or may not be represented in our book list. In order to remove a Category, you would first need to handle all of the books of that type by
                              either changing the corresponding books category types or removing the books first

UserReviews
    bookid_FK   -> WILL cascade Deletions because a review MUST be attached to a book
    userId_FK   -> will NOT cascade Deletions because a review may or may not be attached to a user. In order to remove a User, you would need to handle all of their reviews first. I think that keeping reviews
                              regardless if the user is still in the system or not would be beneficial. If a user is to be removed, all of their reviews should receive a userId_FK that corresponds to a default 'Anonymous" user.