MEDIA: Describes type of media.

Field	Description	DataType	Allow Nulls	Key
Media_ID	Unique ID of media	INTEGER	Does not allow nulls	Primary Key
Media_Type	Name of the type of Media	VARCHAR(255)	Does not allow nulls	Not a Key

PUBLISHEDBY: Provides publisher's name (some media do not have a publisher like CDs. CDs will have a writer. Therefore, Nulls are allowed)

Field	Description	DataType	Allow Nulls	Key
Publisher_ID	Unique ID of publisher	INTEGER(10)	Does not allow nulls	Primary Key
Publisher_Name	Name of Publisher	VARCHAR(255)	Allow nulls	Not a key

WRITTENBY: Identifies Writer (Some media do not have a writer like CDs. CDs will have a writer (but should have one or the other (must have a writer or publisher and/or both). Some Writers do not have Middle Names nor Sr. names. Therefore, Nulls are allowed for writter's name because there may not be a writer.) The full name field is created so that when it connects to the catalog table, I don't have to pull each individual name field in this table.

Field	Description	DataType	Allow Nulls	Key
Writer_ID	Unique ID of book	INTEGER(10)	Allow nulls	Primary Key
LastName	Last name of writer	VARCHAR(255)	Allow nulls	Not a Key
FirstName	First name of writer	VARCHAR(255)	Allow nulls	Not a Key
MiddleName	Middle name of writer	VARCHAR(255)	Allow nulls	Not a Key
SrName	Sr name of writer	VARCHAR(10)	Allow nulls	Not a Key
WriterFull_Name	Unique ID of publisher	INTEGER(10)	Does not allow nulls	Not a Key

CATEGORIZEDBY: Associates (links) media with category

Field	Description	DataType	Allow Nulls	Key
Category_ID	Unique ID of category	INTEGER(10)	Does not allow nulls	Primary Key
Category_Name	Name of category	VARCHAR(100)	Does not allow nulls	Not a Key

BOOKSHELF: Associates (links) section with bookshelf

Field	Description	DataType	Allow Nulls	Key
Bookshelf_ID	Unique ID of bookshelf	INTEGER(10)	Does not allow nulls	Primary Key
Bookshelf_Name	Name or number of bookshelf	VARCHAR(100)	Does not allow nulls	Not a Key

SECTIONRATINGS: Associates (links)

Field	Description	DataType	Allow Nulls	Key
Section_ID	Unique ID of section	INTEGER(10)	Does not allow nulls	Foreign Key
Section_Name	Name of section	VARCHAR(15)	Does not allow nulls	Not a Key

CATALOG: Associates (links) medias with writers, category and/or publisher (Some media do not have a publisher or some may not have writer like CDs. CDs will have a writer (but should have one or the other (must have a writer or publisher and/or both). Some Writers do not have Middle Names. Therefore, Nulls are allowed for publisher and middle name.)

Field	Description	DataType	Allow Nulls	Key
Media_ID	Unique ID of media	INTEGER(10)	Does not allow nulls	Foreign Key
Media_Type	Name of the type of Media	VARCHAR(255)	Does not allow nulls	Not a Key
Media_Title	Title of the Media	VARCHAR(255)	Allow nulls	Foreign Key
Publisher_ID	Unique ID of publisher	INTEGER(10)	Allow nulls	Foreign Key
Category_ID	Unique ID of category	INTEGER(10)	Does not allow nulls	Foreign Key
WriterFull_Name	Unique ID of publisher	INTEGER(10)	Allow nulls	Not a Key
Bookshelf_ID	Unique ID of bookshelf	INTEGER(10)	Does not allow nulls	Foreign Key
Section_ID	Unique ID of section	INTEGER(10)	Does not allow nulls	Foreign Key

Part 4. Sample Data

MEDIA: (unique)

Media_ID	Media_Type
01	Books
02	DVD
03	CD
04	Magazine
05	Newspaper Article
06	Video Game

PUBLISHEDBY: (unique)

Publisher_ID	Publisher Name
Autonumber	Charlotte Observer
Autonumber	National Geographic Children's Books
Autonumber	TIME For Kids
Autonumber	Adobe
Autonumber	Lyons / Hit Ent
Autonumber	Nintendo

WRITTENBY: (700 = NULL under writer)

Writer_ID	LastName	FirstName	MiddleName	Writter full name
700	NULL	NULL	NULL	Null
Autonumber	Sandvold	Lynnette	Brent	Sandvold, Lynnette Brent
Autonumber	Entertainment	Hit	NULL	Hit Entertainment
Autonumber	InterActive	Mentor	NULL	Mentor InterActive
Autonumber	ChSoe	Stan	NULL	ChSoe, Stan

CATEGORY ID: (science, math, etc) (unique)

Category_ID	Category_Name
Autonumber	Science
Autonumber	Math
Autonumber	Geographic
Autonumber	Animation
Autonumber	IT
Autonumber	Business

BOOKSHELF: (four book shelves) (unique)

Bookshelf_ID	Bookshelf_Name
00011	Kids01
00022	Kids02
00033	Adults01
00044	Adults02
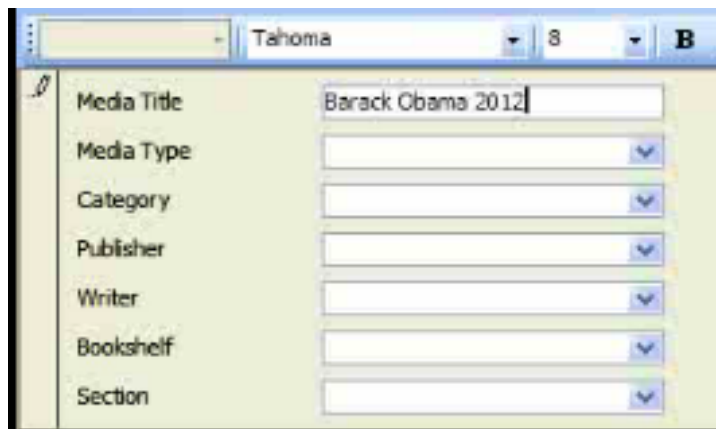
SECTIONRATINGS: (kids=101 or adults=201)

Section_ID	Section_Name
101	Kids
201	Adults

Catalog: (I've added numbers for all autonumbers)

Media_ID	Media_Type	Media_Title	Publisher_ID	Category_ID	WriterFull_Name	Bookshelf_ID	Section_ID
01	Books	TIME For Kids Super Science Book	003	401	Sandvold, Lynnette Brent	00011	101
06	Video Game	My Virtual Tutor: PreK Math	019	402	Mentor InterActive	00022	101
03	CD	Weird but True	002	403	NULL	00022	101
04	Magazine	TIME for Kids	003	401	Sandvold, Lynnette Brent	00011	101
02	DVD	Barney: Learning Pack	016	404	Hit Entertainment	00022	101
03	CD	DreamWeaver	005	505	NULL	00033	201
05	Newspaper Article	Economic fears send stocks plunging	001	506	ChSoe, Stan	00044	291

(sample of catalog table turned into a form in Access)