

1. Physical Data Model

- Media

#	PK	FK	Column name	Data type	Mandatory	Description
1	x		id	Integer	yes	ID, auto increment
2			category	VARCHAR(45)	yes	Media type, e.g., CD, DVD
3			Price	Integer	Yes	Current price
4			Quantity	Integer	Yes	Number of products
5			Title	VARCHAR(45)	Yes	Product name
6			Value	Integer	Yes	Value of product
7			imageUrl	VARCHAR(45)	Yes	Product image path

- CD

#	PK	FK	Column name	Data type	Mandatory	Description
1		x	Id	Integer	Yes	ID, same as ID of Media of which type is CD
2			Artist	Varchar(45)	Yes	Artist's name
3			recordLabel	Varchar(45)	Yes	Record label
4			musicType	Varchar(45)	Yes	Music genres
5			releaseDate	Date	No	Release date

- Book

#	PK	FK	Column name	Data type	Mandatory	Description
1		x	Id	Integer	Yes	ID, same as ID of Media of which type is Book
2			Author	Varchar(45)	Yes	Author

3			coverType	Varchar(45)	Yes	Author
4			Publiser	Varchar(45)	yes	Publishing house
5			publishDate	Datetime	Yes	Date of publishing
6			numOfPages	Integer	Yes	Page number
7			Language	Varchar(45)	Yes	Language
8			bookCategory	Varchar(45)	Yes	Book category

- DVD

#	PK	FK	Column name	Data type	Mandatory	Description
1		x	Id	Integer	Yes	ID, same as ID of Media of which type is DVD
2			discType	Varchar(45)	Yes	Disc type
3			Director	Varchar(45)	Yes	Director
4			Runtime	Integer	Yes	Duration
5			Studio	Varchar(45)	Yes	Manufacturer
6			Subtitle	Varchar(45)	Yes	Subtitles
7			releasedDate	Datetime	Yes	Release date
8			filmType	Varchar(45)	Yes	genres

- LP

#	PK	FK	Column name	Data type	Mandatory	Description
1		x	Id	Integer	Yes	ID, same as ID of Media of which type is LP
2			Artist	Varchar(45)	Yes	Artist's name
3			recordLabel	Varchar(45)	Yes	Record label
4			musicType	Varchar(45)	Yes	Music genres
5			releaseDate	Date	No	Release date

- Card

#	PK	FK	Column name	Data type	Mandatory	Description
1	x		id	Integer	yes	ID, auto increment
2			cardCode	Varchar(45)	Yes	Card code
3			Owner	Varchar(45)	Yes	Cardholders
4			cvvCode	Varchar(3)	Yes	CVV code
5			dateExpired	Varchar(4)	Yes	Expiration date

- DeliveryInfo

#	PK	FK	Column name	Data type	Mandatory	Description
1	x		id	Integer	yes	ID, auto increment
2			name	Varchar(45)	Yes	Receiver name
3			Province	Varchar(45)	Yes	provinces
4			Instructions	Varchar(200)	No	Delivery instructions
5			Address	Varchar(100)	Yes	Delivery address

- Order

#	PK	FK	Column name	Data type	Mandatory	Description
1	x		id	Integer	yes	ID
2			shippingFees	Varchar(45)	Yes	Shipping fee
3		x	deliveryInfoId	Integer	Yes	Delivery info id

- OrderMedia

#	PK	FK	Column name	Data type	Mandatory	Description
1		x	mediaID	Integer	yes	mediaID
2		x	orderID	Integer	Yes	orderID
3			Price	Integer	Yes	Selling price
4			Quantity	Integer	Yes	Number

- Invoice

#	PK	FK	Column name	Data type	Mandatory	Description
1	x		id	Integer	yes	ID
2			totalAmount	Integer	Yes	Total
3		x	orderId	Integer	Yes	Order ID

- PaymentTransaction

#	PK	FK	Column name	Data type	Mandatory	Description
1	x		id	Integer	yes	ID
2			createAt	Datetime	Yes	Date of creation
3			Content	Varchar(45)	Yes	Transaction contents
4			Method	Varchar(45)	Yes	Payment methods
5		x	cardId	Integer	Yes	ID of used card
6		x	invoiceId	Integer	Yes	Invoice ID