Database Tables Detailed Design

1. Product

#	PK	FK	Column Name	Data type	Mandatory	Description
1	x		productID	VARCHAR	Yes	Product identifier (primary key)
2			category	VARCHAR	No	Category of the product
3			title	VARCHAR	No	Product title
4			value	FLOAT	No	Product base value
5			price	FLOAT	No	Selling price
6			quantity	INT	No	Available quantity in stock
7			description	VARCHAR	No	Description of the product
8			barcode	VARCHAR	No	Product barcode
9			warehouseEntryDate	DATE	No	Date of warehouse entry
10			dimensions	VARCHAR	No	Product dimensions
11			weight	FLOAT	No	Weight of the

#						product
12			imageURL	VARCHAR	No	Image URL

2. Book

#	PK	FK	Column Name	Data type	Mandatory	Description
1	x	x	productID	VARCHAR	Yes	FK to Product
2			coverType	VARCHAR	No	Cover type of the book
3			authors	VARCHAR	No	Authors of the book
4			publisher	VARCHAR	No	Publisher
5			numberOfPages	INT	No	Number of pages
6			language	VARCHAR	No	Language
7			genre	VARCHAR	No	Genre of the book
8			pubDate	DATE	No	Publication date

3. CD

#	PK	FK	Column Name	Data type	Mandatory	Description
1	x	x	productID	VARCHAR	Yes	FK to Product
2			tracklist	VARCHAR	No	List of tracks
3			artist	VARCHAR	No	Artist name
4			releaseDate	DATE	No	Release

#	PK	FK	Column Name	Data type	Mandatory	Description
						date
5			recordLabel	VARCHAR	No	Record label
6			musicType	VARCHAR	No	Type of music

4. DVD

#	PK	FK	Column Name	Data type	Mandatory	Description
1	x	x	productID	VARCHAR	Yes	FK to Product
2			discType	VARCHAR	No	Disc type
3			runtime	VARCHAR	No	Runtime of the DVD
4			studio	VARCHAR	No	Studio
5			director	VARCHAR	No	Director
6			subtitle	VARCHAR	No	Subtitle language
7			releaseDate	DATE	No	Release date
8			language	VARCHAR	No	Language
9			genre	VARCHAR	No	Genre

5. User

#	PK	FK	Column Name	Data type	Mandatory	Description
1	x		id	VARCHAR	Yes	Primary key
2			role	VARCHAR	No	User role

#	PK	FK	Column Name	Data type	Mandatory	Description
3			username	VARCHAR	No	Login username
4			password	VARCHAR	No	Login password

6. ShopItems

#	PK	FK	Column Name	Data type	Mandatory	Description
1	x	x	productID	VARCHAR	Yes	FK to Product
2	x	x	managerID	VARCHAR	Yes	FK to User

7. CartItems

#	PK	FK	Column Name	Data type	Mandatory	Description
1	x	x	customerID	VARCHAR	Yes	FK to User
2	x	x	productID	VARCHAR	Yes	FK to Product
3			quantity	INT	No	Number of products in cart

OrderAccount

#	PK	FK	Column Name	Data type	Mandatory	Description
1	x		id	VARCHAR	Yes	Order ID
2		x	customerID	VARCHAR	No	FK to User
3			status	VARCHAR	No	Order status

OrderItems

#	PK	FK	Column Name	Data type	Mandatory	Description
1	x	x	productID	VARCHAR	Yes	FK to Product
2	x	x	orderID	VARCHAR	Yes	FK to OrderAccount
3			quantity	INT	No	Quantity of the product in order

DeliveryInfo

#	PK	FK	Column Name	Data type	Mandatory	Description
1	x	x	orderID	VARCHAR	Yes	FK to OrderAccount
2			deliveryAddress	VARCHAR	No	Address to deliver
3			phoneNumber	VARCHAR	No	Phone number
4			recipientName	VARCHAR	No	Name of the recipient
5			mail	VARCHAR	No	Email
6			province	VARCHAR	No	Province

PaymentTransaction

#	PK	FK	Column Name	Data type	Mandatory	Description
1	x	x	orderID	VARCHAR	Yes	FK to OrderAccount
2			content	VARCHAR	No	Transaction content

#	PK	FK	Column Name	Data type	Mandatory	Description
3				datetime	TIMESTAMP No	Transaction date and time

Invoice

#	PK	FK	Column Name	Data type	Mandatory	Description
1	x	x	orderID	VARCHAR	Yes	FK to OrderAccount
2			productPriceExcludingVAT	FLOAT	No	Price without VAT
3			productPriceIncludingVAT	FLOAT	No	Price with VAT
4			deliveryFee	FLOAT	No	Delivery fee