Physical Data Model

DeliveryInfo

No.	PK	FK	Name	Data type	Mandatory	Description
1	x		id	int	x	ID
2			name	varchar(45)	x	Name of customer
3			phoneNumber	varchar(11)	x	Phone number of customer
4			address	varchar(100)	x	Address of customer
5			province	varchar(45)	x	Province of customer
6			instructions	varchar(200)		Delivery instructions

Order

No.	PK	FK	Name	Data type	Mandatory	Description
1	x		id	int	x	ID of the order
2		x	deliveryInfoId	int	x	ID of delivery infomation
3			shippingFees	float	x	Shipping fees of the order
4			isRush	boolean	x	1 for rushed order, 0 otherwise

Credit card

No.	PK	FK	Name	Data type	Mandatory	Description
1	x		id	int	x	ID
2			owner	varchar(45)	x	Name of the cardholder
3			cardCode	varchar(45)	x	Card code
4			cvvCode	varchar(3)	x	CVV code
5			expirationDate	Date	x	Expriration

Media

No.	PK	FK	Name	Data type	Mandatory	Description
1	x		id	int	x	ID
2			title	varchar(45)	x	Name of the media item
3			price	int	x	Price of the media item
4			category	varchar(45)	x	Media type, e.g., CD, DVD

No.	PK	FK	Name	Data type	Mandatory	Description
5			value	int	x	Value of the product
6			imageURL	varchar(45)	x	Product image path
7			quantity	int	x	Number of products
8			rushSupport	boolean	x	1 if the media support rush order, 0 otherwise

Book

No.	PK	FK	Name	Data type	Mandatory	Description
1	x	x	id	int	x	Id of the book.
2			author	varchar(45)	x	Author of book
3			coverType	varchar(45)	x	Cover type
4			publisher	varchar(45)	x	Publishing house
5			publishDate	date	x	Date of publishing
6			language	varchar(45)	x	Page number
7			noPages	int	x	Language
8			bookCategory	varchar(45)	x	Book category

CD

No.	PK	FK	Name	Data type	Mandatory	Description
1	x	x	id	int	x	Id of the CD
2			artist	varchar(45)	x	Artist of CD
3			musicType	varchar(45)	x	Music genres
4			recordLabel	varchar(45)	x	Record label
5			releaseDate	date		Release date

DVD

No.	PK	FK	Name	Data type	Mandatory	Description
1	x	x	id	int	x	Id of dvd
2			discType	varchar(45)	x	Type
3			director	varchar(45)	x	Director
4			runTime	int	x	Duration
5			studio	varchar(45)	x	Manufacturer
6			subtitle	varchar(45)	x	Subtitles
7			releaseDate	date	x	Release date
8			filmType	varchar(45)	x	Genres

OrderMedia

No.	PK	FK	Name	Data type	Mandatory	Description
1			price	int	x	Selling price
2			quantity	int	x	Number of media
3		x	mediaId	int	x	Media ID

4		x	orderId	int	x	Order ID

PaymentTransaction

No.	PK	FK	Name	Data type	Mandatory	Description
1	x		id	int	x	Id
2			method	varchar(45)	x	Payment method
3			content	varchar(45)	x	Transaction contents
4			createTime	date	x	Date of creation
5		x	creditCardId	int	x	ID of used card
6		x	invoiceId	int	x	Invoice ID

Invoice

No.	PK	FK	Name	Data type	Mandatory	Description
1	x		id	int	x	ID
2			totalAmount	int	x	Total amount
3		x	orderId	int	x	ID of Order