Database model documentation

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1. Model details

Model name:

Aims

Version:

2.4

Database engine:

MySQL

Description:

2. Tables

2.1. Table Media

2.1.1. Columns

Column name	Type	Properties	Description
id	int	PK	ID, auto increment
title	varchar(200)		Product name
value	float		value of product
price	float		price of product
category	varchar(100)		Media type : CD, DVD,...
image_url	varchar(200)		path to image
rush_delivery	bool		rush delivery available ?

2.2. Table Book

2.2.1. Columns

Column name	Type	Properties	Description
id	int	PK	ID, same as ID of Media of which type is Book
author	varchar(100)		Author'name
publisher	varchar(100)		Publishing house
publisher_date	datetime		Date of publishing
numer_of_page	int	null	Page number
book_category	varchar(100)	null	Book category
cover_type	varchar(100)		Cover type
language	varchar(20)	null	

2.3. Table DVD

2.3.1. Columns

Column name	Type	Properties	Description
id	int	PK	ID, same as ID of Media of which type is DVD

studio	varchar(100)		Manufacturer
disc_type	varchar(20)		Disc type
subtitle	varchar(100)		Subtitles
language	varchar(20)		
runtime	varchar(20)		Duration
director	varchar(50)		
release_date	datetime	null	
dvd_category	varchar(20)	null	

2.4. Table CD

2.4.1. Columns

Column name	Type	Properties	Description
id	int	PK	ID, same as ID of Media of which type is CD
artist	varchar(50)		Artist's name
music_type	varchar(50)		Music genres
record_label	varchar(50)		Record label
category_cd	varchar(50)		Category of CD
release_date	datetime	null	

2.5. Table Track

2.5.1. Columns

Column name	Type	Properties	Description
id	int	PK	
name	varchar(100)		
CD_id	int		

2.6. Table Order

Description:

Shipping fee

2.6.1. Columns

Column name	Type	Properties	Description

id	int	PK	ID, auto increment, same as ID of DeliveryInfo
shipping_fee	int		

2.7. Table DeliveryInfo

2.7.1. Columns

Column name	Type	Properties	Description
id	int	PK	ID, auto increment, same as ID of Order
name	varchar(50)		Receiver name
province	varchar(20)		Provinces
address	varchar(100)		Delivery address
instruction	varchar(100)		Delivery instructions
time_receive	datetime	null	time receive when select rush delivery

2.8. Table Invoice

2.8.1. Columns

Column name	Type	Properties	Description
id	int	PK	ID, auto increment, same as ID of Order
total_amount	int		

2.9. Table PaymentTransaction

2.9.1. Columns

Column name	Type	Properties	Description
id	int	PK	
createdAt	varchar(100)		
content	varchar(200)		
method	varchar(100)		
Card_id	int		
Invoice_id	int		

2.10. Table Card

2.10.1. Columns

Column name	Type	Properties	Description
id	int	PK	ID, auto increment
cvv_code	varchar(50)		CVV code
date_expired	datetime		Expiration date
owner	varchar(50)		Cardholders
card_code	varchar(50)		

2.11. Table MediaOrder

2.11.1. Columns

Column name	Type	Properties	Description
id	int	PK	
quantity	int		Number
Media_id	int		
Order_id	int		

3. References

3.1. Reference CD_Media

Media	1..1	CD
id	<->	id

3.2. Reference DeliveryInfo_Order

Order	1..1	DeliveryInfo
id	<->	id

3.3. Reference PaymentTransaction_Card

Card	0..*	PaymentTransaction
id	<->	Card_id

3.4. Reference MediaOrder_Media

Media	0..*	MediaOrder
id	<->	Media_id

3.5. Reference MediaOrder_Order

Order	1..*	MediaOrder
id	<->	Order_id

3.6. Reference Invoice_Order

Order	1..1	Invoice
id	<->	id

3.7. Reference DVD_Media

Media	0..*	DVD
id	<->	id

3.8. Reference Book_Media

Media	1..1	Book
id	<->	id

3.9. Reference PaymentTransaction_Invoice

Invoice	1..1	PaymentTransaction
id	<->	Invoice_id

3.10. Reference Track_CD

CD	1..*	Track
id	<->	CD_id