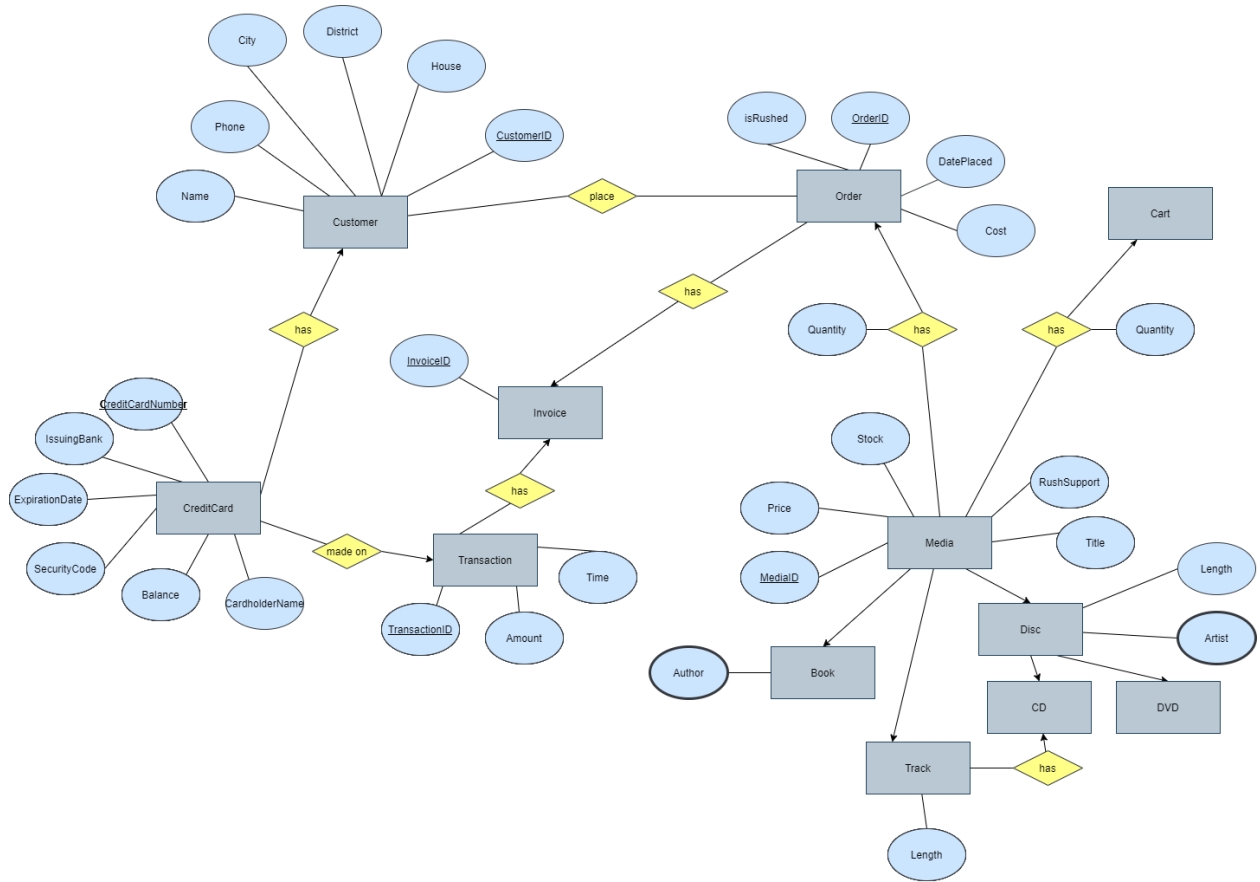
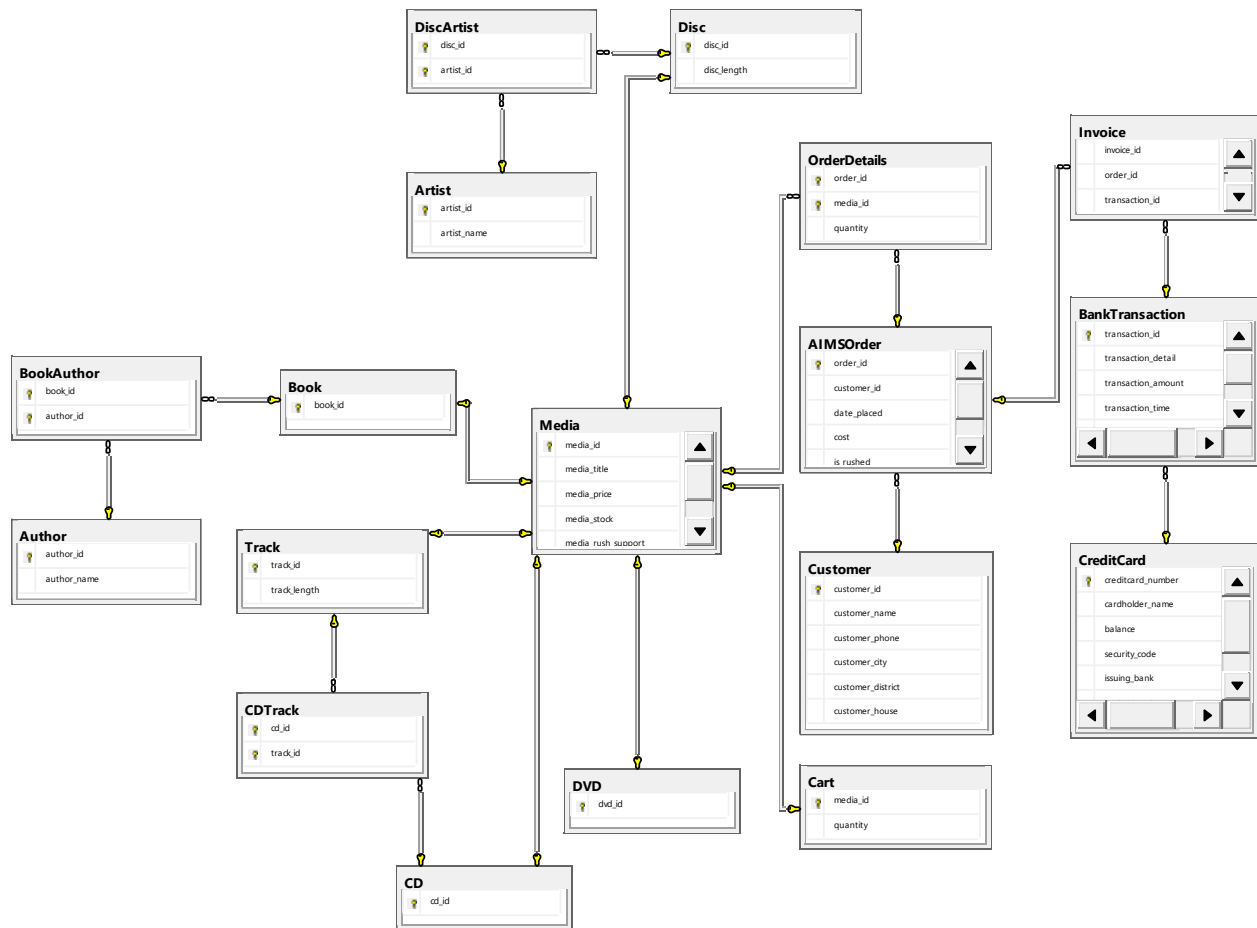


Database specifications for AIMS Application

I. ER-Diagram



II. Table relationships



III. Table specifications

Customer

No.	PK	FK	Name	Data type	Mandatory	Description
1	x	x	customer_id	int	X	ID of customer
2			customer_name	varchar(256)	x	Name of customer
3			customer_phone	varchar(12)		Phone number of customer
4			customer_city	varchar(32)	x	City of customer
5			customer_district	varchar(48)	x	District of customer
6			customer_house	varchar(128)	x	Home address of customer

Credit card

No.	PK	FK	Name	Data type	Mandatory	Description
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1	x	x	creditcard_number	varchar(25)	x	Number of creditcard
2			cardholder_name	varchar(48)	x	Name of the cardholder
3			balance	float	x	Current balance of the credit card
4			security_code	varchar(8)	x	Security code of the credit card
5			issuing_bank	varchar(128)	x	Bank hosting the creditcard
6			expiration_date	date	x	Expiration date of the credit card

Media

No.	PK	FK	Name	Data type	Mandatory	Description
1	x	x	media_id	varchar(4)	x	Id of the media item
2			media_title	varchar(128)	x	Name of the media item
3			media_price	float	x	Price of the media item
4			media_stock	int	x	Current available quantity of media item
5			media_rush_support	bit	x	1 if the media support rush order, 0 otherwise

Book

No.	PK	FK	Name	Data type	Mandatory	Description
1	x	x	book_id	varchar(4)	x	Id of the book.

Author

No.	PK	FK	Name	Data type	Mandatory	Description
1	x	x	author_id	varchar(4)	x	Author's id
2			author_name	varchar(128)	x	Author's name

BookAuthor

No.	PK	FK	Name	Data type	Mandatory	Description
1	x		book_id	varchar(4)	x	Id of the book
2	x		author_id	varchar(4)	x	Id of author of the book

Disc

No.	PK	FK	Name	Data type	Mandatory	Description
1	x	x	disc_id	varchar(4)	x	Id of the disc.
2			disc_length	float	x	Duration of the disc

Cd

No.	PK	FK	Name	Data type	Mandatory	Description
1	x	x	cd_id	varchar(4)	x	Id of the CD

Track

No.	PK	FK	Name	Data type	Mandatory	Description
1	x	x	track_id	varchar(4)	x	Id of the track
2			track_length	float	x	Duration of the track

CDTrack

No.	PK	FK	Name	Data type	Mandatory	Description
1	x		cd_id	varchar(4)	x	ID of the cd
2	x		track_id	varchar(4)	x	ID of the track in CD

DVD

No.	PK	FK	Name	Data type	Mandatory	Description
1	x		dvd_id	varchar(4)	x	ID of the DVD

Artist

No.	PK	FK	Name	Data type	Mandatory	Description
1	x	x	artist_id	varchar(4)	x	Artist's ID
2			artist_name	varchar(128)	x	Artist's name

DiscArtist

No.	PK	FK	Name	Data type	Mandatory	Description
1	x		disc_id	varchar(4)	x	ID of the disc
2	x		artist_id	varchar(4)	x	ID of the artists of the disc

AIMSOrder

No.	PK	FK	Name	Data type	Mandatory	Description
1	x	x	order_id	int	x	ID of the order
2			customer_id	int	x	ID of customer placed the order
3			date_placed	date	x	Date when the order is placed
4			cost	float	x	Cost of the order
5			is_rushed	bit	x	1 for rushed order, 0 otherwise

OrderDetails

No.	PK	FK	Name	Data type	Mandatory	Description
1	x		order_id	int	x	Id of the order
2	x		media_id	varchar(4)	x	Id of the media in the order
3			quantity	int	x	Quantity of the media item in the order

Cart

No.	PK	FK	Name	Data type	Mandatory	Description
1	x		media_id	varchar(4)	x	Id of the media in the cart
2			quantity	int	x	Quantity of the media in the cart

BankTransaction

No.	PK	FK	Name	Data type	Mandatory	Description
1	x		transaction_id	int	x	Id of the transaction
2			transaction_detail	varchar(256)		Detail of the transaction
3			transaction_amount	float	x	Amount of the transaction
4			transaction_time	datetime	x	Time that the transaction is performed
5			creditcard_number	varchar(25)	x	Number of the credit card used to perform the transaction

Invoice

No.	PK	FK	Name	Data type	Mandatory	Description
1	x		invoice_id	int	x	ID of the invoice
2			order_id	int	x	ID of the order corresponding to the invoice
3			transaction_id	int	x	ID of the transaction used to pay the order