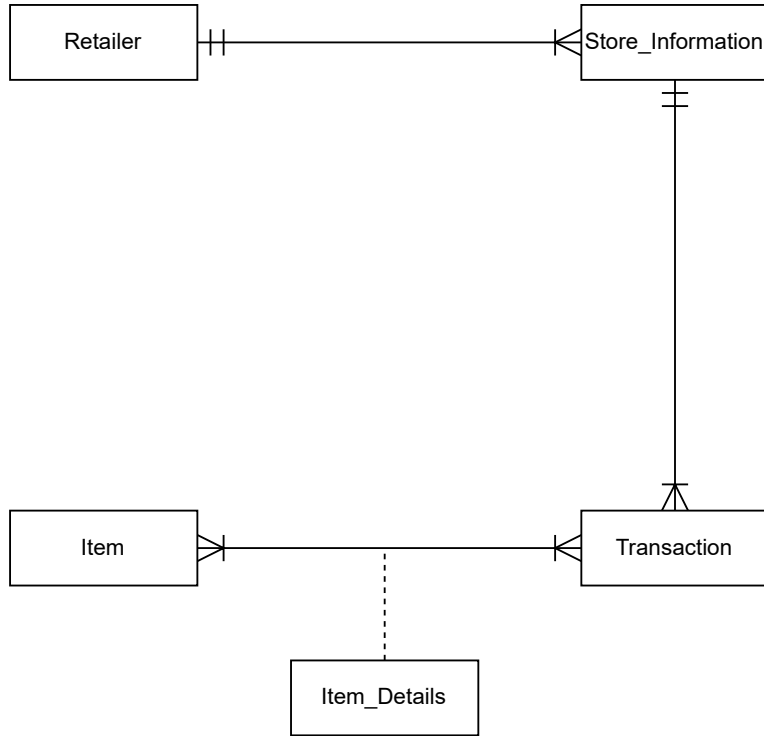
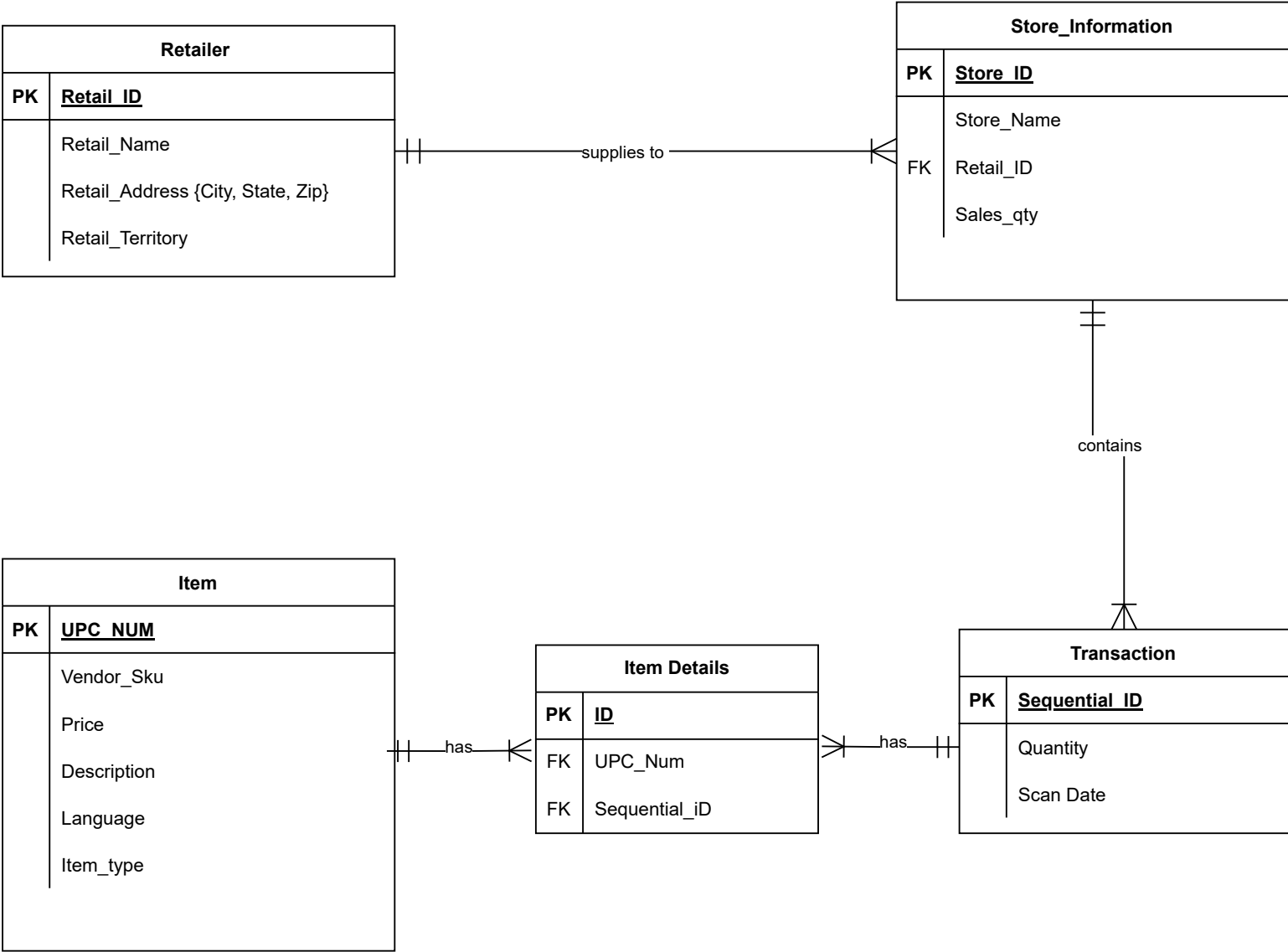


CONCEPTUAL MODEL



LOGICAL MODEL



NORMALIZATION

Retailer

<u>Retailer ID</u>	Retailer Name	Retailer Address	Retailer Territory
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Store

<u>Store ID</u>	<u>Retailer ID</u>	<u>Transaction ID</u>	Store Name	Sale Quantity
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Transaction

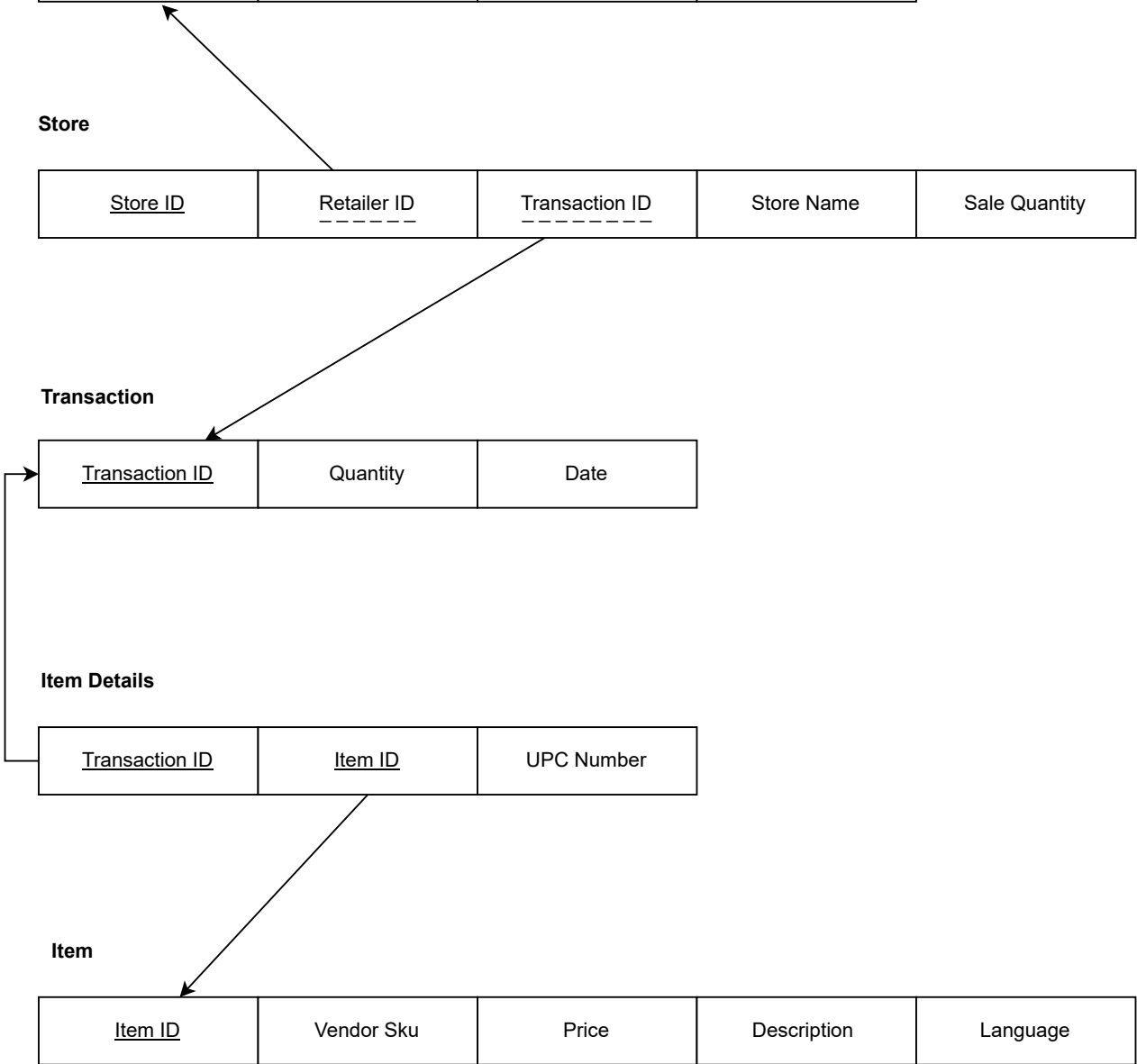
<u>Transaction ID</u>	Quantity	Date
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Item Details

<u>Transaction ID</u>	<u>Item ID</u>	UPC Number
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Item

<u>Item ID</u>	Vendor Sku	Price	Description	Language
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DATA DICTIONARY

Retail Information

Data_Item	Data_Type	Data_Format	Size_Display	Description	Sample	Keys
Retailer_ID	Integer	NNNNNNNNNN	10	Unique_ID	8999990000	PK
Retailer_Name	String	Char	30	Name_Of_Retailer	Walmart	
Address_1	String	Char	30	Street Address	123 Walmart Way	
City	String	Char	30	City	Long Beach	
State	String	Char	2	State	CA	
Zip	String	Char	10	Zip_Code	90808	

Store Information

Data_Item	Data_Type	Data_Format	Size_Display	Description	Sample	Keys
Store_ID	Integer	NNNNNNNNNN	10	Unique_ID	8999990000	PK
Store_Name	String	Char	30	Name_Of_Store	Walmart	
Retailer_ID	Integer	NNNNNNNNNN	10	Retailer ID	8999990000	FK
Sales_Qty	Integer	NNNNNNNNNN	30	Sales Quantity	500	

Item

Data_Item	Data_Type	Data_Format	Size_Display	Description	Sample	Keys
UPC_Num	Integer	NNNNNNNNNN	12	Unique_ID	001234567890	PK
Vendor_Sku	String	VarChar	30	Sku_Num	32552ABC	
Price	Numeric	NNNN	30	Item_Price	10.99	
Description	String	Char	100	Item_Description	Spider man	
Language	String	Char	10	Language	EN	
Item_type	String	Char	10	Type of item	Bluray, DVD	

Item Details

Data_Item	Data_Type	Data_Format	Size_Display	Description	Sample	Keys
Id	Integer	NNNNNNN	12	Unique ID	1	PK
UPC_Num	Integer	NNNNNNNNNNN	12	Item ID	001234567890	FK
Sequential_ID	Integer	NNNNNNNN	12	Sequential_ID	1	FK

Transaction

Data_Item	Data_Type	Data_Format	Size_Display	Description	Sample	Keys
Sequential_ID	Integer	NNNNNNNNNNN	12	Unique_ID	001234567890	PK
Quantity	Integer	NNNNNNNN	30	Quantity	1	
Scan_Date	Date	mmddyyyy	8	Date	03272024	