Invoice modelling

Classes

Customer
- Id
- Name
- Address
- Email
- Phone
- Discount

1 — 0 - inf

Invoice
- Id
- Invoice Number
- Invoice Date
- Due Date
- Subtotal
- Discount
- Shipping
- Grand Total

1 — 1 -inf

InvoiceLine
- Id
- Item
- Unit Price
- Quantity
- Tax Rate
- Discount
- Total
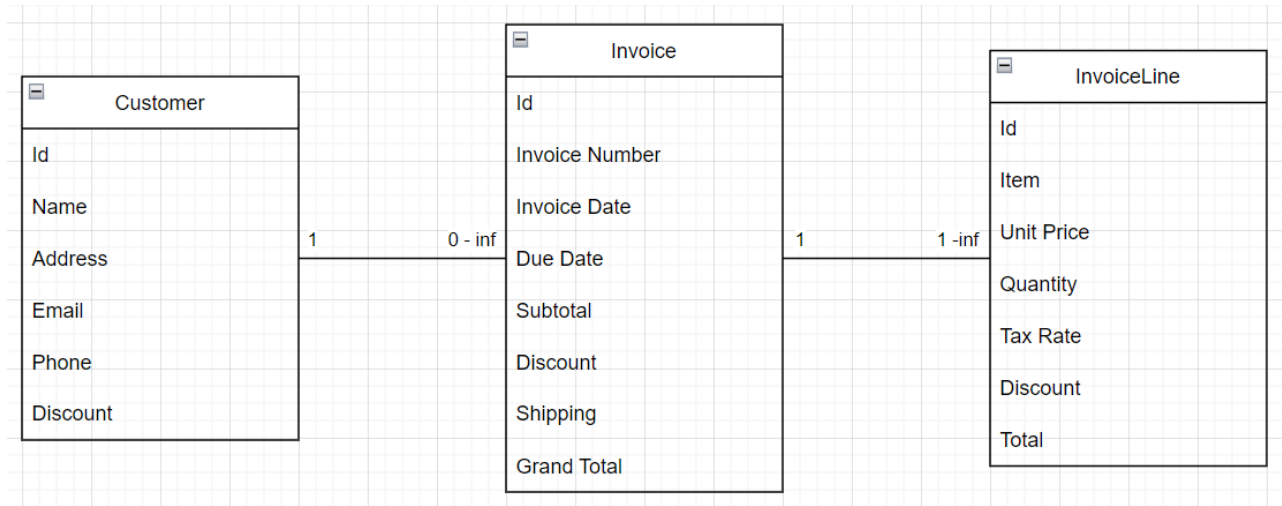
Properties

Property	Type	Length	Required	Unique
Customer				
Id	Int		+	+
Name	String	100	+	
Address	String	255	+	
Email	String	100	+	
Phone	String	15		
Discount	Decimal		+	
Invoice				
Id	Int		+	+
Invoice Number	String	15	+	+
Invoice Date	DateTime		+	
Due Date	DateTime		+	
Subtotal	Decimal		+	
Discount	Decimal		+	
Shipping	Decimal		+	
Grand Total	Decimal		+	
Invoice Line				
Id	Int		+	+
Item	String	255	+	
Unit Price	Decimal		+	
Quantity	Int		+	
Tax Rate	Decimal		+	
Discount	Decimal		+	
Total	Decimal		+	

Rules

- Each invoice id must be larger than the previous by 1
- Phone number must start with a country code
- Discount values must range from 0 to 0.99
- No invoice date can be created in the past
- Invoice date must be before due date
- Due date must be after invoice date