Entity

Product

ID - auto generated unique identifier

Name - Product name for customer facing display

Quantity - Current quantity in stock

RQuantity - Amount of current stock that has been sold

Price - Price of product

Description - Description of product

Customer

ID - Auto generated unique identifier

FName - Customer first name

LName - Customer last name

Email - Customer preferred email for login or communication

Address - Saved delivery address

City - Address City

State - Address State

ZIP - Address zip code

Card - Foreign key to Card, customer saved payment method

Card

ID - Card number, unique identifier

FName - Card holder first name

LName - Card holder last name

Month - Expiration date month

Year - Expiration date year

CVV - Card verification number

Address - Billing Address

City - Address city

State - Address state

ZIP - Address zip code

OrderLine

ID - Auto generated unique identifier

CID - ID of purchasing customer

PID - ID of product being purchased

Status - Check whether order is in shopping cart or submitted

Quantity - Quantity of product ordered

Customer Order

ID - Order ID, auto generated unique identifier, can be used to look up submitted orders

OID - OrderLine ID of associated OrderLines

Status - Current status of order, eq. processing, processed, shipped, outstanding

Date - Estimated delivery date for customer communication

Note - Any customer or employee added notes on order

Relationships

Saved

Between Card and Customer

Customers saved payment information, each card will belong to one customer, each customer will have one saved payment method

Cart

Between Customer and OrderLine

When a customer adds a product to their shopping cart

A customer can have many OrderLines in their cart, each orderline will belong to one customer

Contains

Between OrderLine and Product

What Product exists in the OrderLine of a Customers cart

Each Orderline will contain one product, each product can be a part of many OrderLines

Submit

Between OrderLine and Customer_Order

When a customer submits an order to be processed

Each Customer_Order can contain multiple OrderLines, each OrderLine will belong to only one Customer_Order