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| **product** |
| +int ProductID  + String Name  + String Description  + int CategoryID  +decimal(10, 2) Price |
| + Product(int ProductID, String Name, String Description, int CategoryID, decimal(10, 2) Price) + getProductID(): int  + getName(): String  + getDescription(): String  + getCategoryID(): int  + getPrice(): decimal(10, 2)  + setProductID(int ProductID): void  + setName(String Name): void  + setDescription(String Description): void  + setCategoryID(int CategoryID): void  + setPrice(decimal(10, 2) Price): void |
| **Supplier** |
| - SupplierID: int - Name: varchar(255) |
| + getSupplierID(): int  + getName(): String  + setSupplierID(id: int): void  + setName(name: String): void  + displayInfo(): void |
| **Warehoyse** |
| * WarehouseID: int * Capacity: int |
| + getWarehouseID(): int  + setWarehouseID(int)  + getCapacity(): int  + setCapacity(int) |
| **Order** |
| +int OrderID  +int CustomerID  +Date Date  +Decimal(10, 2) TotalCost |
| +getOrderID() : int  +setOrderID(orderID: int) : void  +getCustomerID() : int  +setCustomerID(customerID: int) : void  +getDate() : Date  +setDate(date: Date) : void  +getTotalCost() : Decimal(10, 2)  +setTotalCost(totalCost: Decimal(10, 2)) : void |
| **Shipment** |
| * ShipmentID : int * OrderID : int * Quantity : int |
| + getShipmentID() : int  + setShipmentID(id : int) : void  + getOrderID() : int  + setOrderID(id : int) : void  + getQuantity() : int  + setQuantity(quantity : int) : void |
| **Stock** |
| * WarehouseID : int * ProductID : int * Quantity : int |
| + getWarehouseID() : int  + setWarehouseID(warehouseID : int)  + getProductID() : int  + setProductID(productID : int)  + getQuantity() : int  + setQuantity(quantity : int) |
| **Category** |
| * CategoryID : int * Name : varchar |
| + Constructor()  + getCategoryID()  + setCategoryID()  + getName()  + setName() |
| **Classname** |
| * LocationID : int * WarehouseID : int * Bin : string |
| +getLocationID()  + setLocationID()  + getWarehouseID()  + setWarehouseID()  + getBin()  + setBin() |

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| **pricing** |
| * ProductID : int * Price : decimal * StartDate : date * EndDate : date |
| + getProductID() : int |

+ setProductID(id : int) + setProductID(id : int)

+ getPrice() : decimal

+ setPrice(price : decimal)

+ getStartDate() : date

+ setStartDate(date : date)

+ getEndDate() : date

+ setEndDate(date : date)

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| **Return** |
| * ReturnID : int * OrderID : int * ProductID : int * Quantity : int * Reason : String * Date : Date |
| + getReturnID() : int  + setReturnID(id : int) : void  + getOrderID() : int  + setOrderID(id : int) : void  + getProductID() : int  + setProductID(id : int) : void  + getQuantity() : int  + setQuantity(quantity : int) : void  + getReason() : String  + setReason(reason : String) : void  + getDate() : Date  + setDate(date : Date) : void |