---

config:

layout: elk

theme: default

---

classDiagram

class Account {

+Long AccountID

+String Email

+String Password

+String Role

+Date RegistrationDate

+String AccountStatus

}

class Customer {

+Long CustomerID

+Long AccountID

+String FullName

+String PhoneNumber

+Date DateOfBirth

+String Gender

+Integer LoyaltyPoints

+String ReferralCode

}

class Admin {

+Long AdminID

+Long AccountID

+String FullName

+String Department

+String Position

+Date HireDate

}

class Address {

+Long AddressID

+Long CustomerID

+String RecipientName

+String RecipientPhone

+String StreetAddress

+String District

+String City

+String PostalCode

+String Country

+Boolean IsDefault

}

class Product {

+Long ProductID

+String Name

+String Description

+Long CategoryID

+String Brand

+Float BasePrice

+Float DiscountPrice

+String Material

+Date CreatedDate

+String Status

+Float AverageRating

+Integer ReviewCount

+Boolean IsFeatured

}

class ProductVariant {

+Long VariantID

+Long ProductID

+String SKU

+String Size

+String Color

+Float PriceAdjustment

+String[] Images

+String Status

}

class Order {

+Long OrderID

+Long CustomerID

+Date OrderDate

+Float TotalAmount

+String PaymentMethod

+String PaymentStatus

+Long TransactionID

+Date PaymentDate

+String OrderStatus

+Long AddressID

+Float ShippingFee

+String CouponCode

+String Notes

}

class OrderItem {

+Long OrderItemID

+Long OrderID

+Long VariantID

+Integer Quantity

+Float UnitPrice

+Float SubTotal

}

class Cart {

+Long CartID

+Long CustomerID

+Date UpdatedDate

+Float TotalAmount

}

class CartItem {

+Long CartItemID

+Long CartID

+Long VariantID

+Integer Quantity

}

class Wishlist {

+Long WishlistID

+Long CustomerID

+Date CreatedDate

}

class WishlistItem {

+Long WishlistItemID

+Long WishlistID

+Long ProductID

+Date AddedDate

}

class Coupon {

+Long CouponID

+String Code

+String Description

+Float DiscountValue

+String DiscountType

+Date StartDate

+Date EndDate

+Integer MaxUses

+Integer UsedCount

+String Conditions

+String Status

}

class Review {

+Long ReviewID

+Long ProductID

+Long CustomerID

+Integer Rating

+String Comment

+Date ReviewDate

+String[] Images

+String Status

}

class ReviewResponse {

+Long ResponseID

+Long ReviewID

+Long AccountID

+String ResponseContent

+Date ResponseDate

+String Status

}

class Category {

+Long CategoryID

+String Name

+Long ParentCategoryID

+String Description

+String Image

}

class Inventory {

+Long InventoryID

+Long VariantID

+Integer Quantity

+Integer ReservedQuantity

+Date UpdatedDate

}

class Shipping {

+Long ShippingID

+Long OrderID

+String Carrier

+String TrackingNumber

+Float ShippingFee

+Date EstimatedDeliveryDate

+String ShippingStatus

}

Account "1" -- "0..1" Customer : links to

Account "1" -- "0..1" Admin : links to

Admin "1" -- "\*" ReviewResponse : writes

Customer "1" -- "\*" Address : has

Customer "1" -- "\*" Order : places

Customer "1" -- "1" Cart : owns

Customer "1" -- "\*" Review : writes

Customer "1" -- "1" Wishlist : has

Order "1" -- "\*" OrderItem : contains

Order "1" -- "1" Address : ships to

Order "1" -- "1" Shipping : has

Order "1" -- "0..1" Coupon : uses

Cart "1" -- "\*" CartItem : contains

Wishlist "1" -- "\*" WishlistItem : contains

Product "1" -- "\*" ProductVariant : has variants

Product "1" -- "\*" Review : receives

Product "1" -- "\*" WishlistItem : added to

ProductVariant "1" -- "\*" OrderItem : included in

ProductVariant "1" -- "\*" CartItem : added to

ProductVariant "1" -- "1" Inventory : tracked in

Category "1" -- "\*" Product : contains

Category "1" -- "\*" Category : parent/child

Review "1" -- "0..1" ReviewResponse : gets