Assignment 4: Semantic descriptors

You are required to create a list of semantic descriptors for an ecommerce website. Specifically, you need to focus on the following entities:

* Products - How to store products?
  + Millions of products
  + How to search? < 250 ms
* Orders
* Customers
* Reviews
* Sales Employee
* Cart
* Shipper
* Supplier

Instructions:

1. **Start by conducting research on the types of semantic descriptors commonly used in ecommerce websites.**
2. Create a table with the following columns: Entity, Semantic Descriptor, Description. **Did anyone created this before?**
3. Fill in the table with the relevant information for each entity.
4. For each semantic descriptor, provide a brief description of what it means and how it relates to the entity.
5. Make sure to use common industry standards and conventions for semantic descriptors where applicable.
6. Submit your completed table along with a brief summary of your approach and any challenges you faced.

Note: You may use external resources to assist you in completing this assignment, but be sure to properly cite any sources used.

Solution:

Products:

* SKU (Stock Keeping Unit)
* Product Name
* Description
* Brand
* Category
* Price
* Discount
* Image URL
* Product Rating
* Availability
* Dimensions
* Weight
* Customer Reviews

Orders:

* Order ID for CRM
* Order ID for ERP
* Customer ID
* Order Date
* Order Total
* Shipping Address
* Billing Address
* Order Status
* Payment Method
* Shipping Method
* Order Items

Customers:

* Customer ID - CRM
* Cust ID - ERP
* Universal Cust ID - MDM
* Party ID
* First Name
* Last Name
* Email
* Phone
* Billing Address
* Shipping Address
* Payment Information
* Order History
* Wishlist
* Reviews
* Loyalty Points

Reviews:

* Product ID
* Customer ID
* Rating
* Title
* Review Text
* Review Date
* Helpful Votes
* Verified Purchase

Sales Employee: Rep

* Employee ID
* First Name
* Last Name
* Email
* Phone
* Address
* Sales Region
* Sales History
* Commission Rate - 10%

Cart:

* Cart ID
* Customer ID
* Product ID
* Quantity
* Price
* Total Price
* Cart Items

Shipper:

* Shipper ID
* Company Name
* Contact Name
* Contact Email
* Contact Phone
* Shipping Region
* Shipping Method
* Shipping Rate

Supplier:

* Supplier ID
* Company Name
* Contact Name
* Contact Email
* Contact Phone
* Products Supplied
* Payment Terms
* Shipping Terms
* Supplier Rating