Domain: E-commerce Website

**Entities:**

1. Product

2. Customer

3. Order

4. Category

5. Supplier

6. Payment

7. Review

8. Shipping Address

9. Coupon

10. Wishlist

**Attributes and Data Types:**

Product:

1. Product ID (Integer): Unique identifier for the product.

2. Product Name (String): Name of the product.

3. Description (Text): A detailed description of the product.

4. Price (Float): The price of the product in the appropriate currency.

5. Stock Quantity (Integer): Number of units available in stock.

6. Category ID (Integer): Foreign key referencing the Category entity.

7. Supplier ID (Integer): Foreign key referencing the Supplier entity.

8. Image URL (String): URL of the product image.

9. Average Rating (Float): Average rating given by customers.

10. Date Added (Date/Time): Date and time the product was added to the website. Customer:

1. Customer ID (Integer): Unique identifier for the customer.

2. First Name (String): First name of the customer.

3. Last Name (String): Last name of the customer.

4. Email (String): Email address of the customer.

5. Phone Number (String): Phone number of the customer.

6. Shipping Address ID (Integer): Foreign key referencing the Shipping Address entity. 7. Billing Address ID (Integer): Foreign key referencing the Shipping Address entity (for billing purposes).

8. Date Registered (Date/Time): Date and time the customer registered on the website. 9. Last Login (Date/Time): Date and time of the customer's last login.

10. Total Orders (Integer): Total number of orders placed by the customer.

Order:

1. Order ID (Integer): Unique identifier for the order.

2. Customer ID (Integer): Foreign key referencing the Customer entity.

3. Order Date (Date/Time): Date and time the order was placed.

4. Total Amount (Float): Total amount of the order.

5. Payment ID (Integer): Foreign key referencing the Payment entity.

6. Shipping Address ID (Integer): Foreign key referencing the Shipping Address entity. 7. Coupon Code (String): Code for the coupon used (if any).

8. Order Status (String): Current status of the order (e.g., processing, shipped, delivered). 9. Shipping Date (Date/Time): Date and time the order was shipped.

10. Delivery Date (Date/Time): Date and time the order was delivered.

Category:

1. Category ID (Integer): Unique identifier for the category.

2. Category Name (String): Name of the category.

3. Description (Text): Description of the category.

4. Parent Category ID (Integer): ID of the parent category (if applicable, for hierarchical categories).

5. Image URL (String): URL of an image representing the category.

6. Total Products (Integer): Total number of products in the category.

7. Date Created (Date/Time): Date and time the category was created.

8. Last Updated (Date/Time): Date and time the category was last updated. 9. Active (Boolean): Flag to indicate if the category is active or not.

Supplier:

1. Supplier ID (Integer): Unique identifier for the supplier.

2. Supplier Name (String): Name of the supplier.

3. Contact Name (String): Name of the primary contact person.

4. Email (String): Email address of the primary contact person.

5. Phone Number (String): Phone number of the primary contact person.

6. Address (Text): Address of the supplier.

7. City (String): City where the supplier is located.

8. Country (String): Country where the supplier is located.

9. Postal Code (String): Postal code of the supplier's location.

10. Date Added (Date/Time): Date and time the supplier was added to the system. Payment:

1. Payment ID (Integer): Unique identifier for the payment.

2. Payment Method (String): Payment method used (e.g., credit card, PayPal, bank transfer). 3. Amount (Float): Amount of the payment.

4. Payment Date (Date/Time): Date and time the payment was made.

5. Transaction ID (String): Unique identifier for the payment transaction.

6. Payment Status (String): Status of the payment (e.g., successful, pending, failed). 7. Currency (String): Currency code for the payment (e.g., USD, EUR, GBP). 8. Card Type (String): Type of credit/debit card used (if applicable).

9. Card Last 4 Digits (String): Last four digits of the card (if applicable).

10. Billing Address ID (Integer): Foreign key referencing the Shipping Address entity (for billing). Review:

1. Review ID (Integer): Unique identifier for the review.

2. Product ID (Integer): Foreign key referencing the Product entity.

3. Customer ID (Integer): Foreign key referencing the Customer entity.

4. Rating (Integer): Rating given by the customer (typically on a scale of 1 to 5).

5. Review Text (Text): Textual review provided by the customer.

6. Review Date (Date/Time): Date and time the review was submitted.

7. Review Status (String): Status of the review (e.g., approved, pending, rejected). 8. Helpful Count (Integer): Number of customers who found the review helpful. 9. Not Helpful Count (Integer): Number of customers who found the review not helpful.

Shipping Address:

1. Address ID (Integer): Unique identifier for the shipping address.

2. Customer ID (Integer): Foreign key referencing the Customer entity.

3. Address Line 1 (String): First line of the shipping address.

4. Address Line 2 (String): Second line of the shipping address (optional).

5. City (String): City where the address is located.

6. Country (String): Country where the address is located.

7. Postal Code (String): Postal code of the address.

8. State/Province (String): State or province where the address is located.

9. Phone Number (String): Phone number associated with the address.

10. Delivery Instructions (Text): Additional instructions for delivery (optional). Coupon:

1. Coupon Code (String): Unique code for the coupon.

2. Discount Percentage (Float): Percentage of discount offered by the coupon. 3. Expiration Date (Date/Time): Date and time the coupon expires.

4. Minimum Order Amount (Float): Minimum order amount required to use the coupon. 5. Maximum Discount Amount (Float): Maximum discount amount applicable with the coupon. 6. Single Use (Boolean): Indicates if the coupon can be used only once.

7. Usage Limit (Integer): Maximum number of times the coupon can be used. 8. Date Created (Date/Time): Date and time the coupon was created.

9. Active (Boolean): Flag to indicate if the coupon is currently active.

Wishlist:

1. Wishlist ID (Integer): Unique identifier for the wishlist.

2. Customer ID (Integer): Foreign key referencing the Customer entity.

3. Product ID (Integer): Foreign key referencing the Product entity.

4. Date Added (Date/Time): Date and time the product was added to the wishlist. 5. Quantity (Integer): The quantity of the product the customer wants to purchase. 6. Priority (Integer): Priority level of the User