**User:**

Attributes:

Email: The email address of the user.

First Name: The first name of the user.

Last Name: The last name of the user.

Password: The password associated with the user's account.

Role: The role or type of user (e.g., customer, admin).

Relationships:

"Has" a Shipping Address: One-to-Many relationship indicating that each user has many shipping addresses, but each shipping address belongs only to one user.

"Orders" Products: Many-to-Many relationship indicating that a user can order multiple products, and a product can be ordered by multiple users.

"Has" Orders: One-to-Many relationship indicating that each user can have multiple orders assigned to him.

**Shipping Address:**

Attributes:

Address Line 1: The first line of the shipping address.

Address Line 2: The second line of the shipping address.

City: The city of the shipping address.

Country: The country of the shipping address.

Zip Code: The postal code of the shipping address.

Relationships:

"Belongs to" a User: Many-to-One relationship indicating that many shipping addresses can belong to a single user.

"Belongs to" Orders: One-to-Many relationship indicating that a shipping address can belong to multiple orders.

**Orders**:

Attributes:

Order Status: The status of the order (e.g., pending, shipped).

Created At: The timestamp when the order was created.

Order ID: A unique identifier for each order.

Relationships:

"Contains" Products: Many-to-Many relationship indicating that an order can contain multiple products, and a product can be part of multiple orders.

"Belongs to" a User: Many-to-One relationship indicating that many orders can belong to one user.

"Associated with " Shipping addresses: Many-to-One relationship indicating that multiple orders can be associated with a single address.

"Converted from" a Shopping Cart: One-to-One relationship indicating that an order can be created from a shopping cart.

**Shopping Cart:**

Attributes:

Cart ID: A unique identifier for the shopping cart.

Relationships:

"Contains" Products: Many-to-Many relationship indicating that a shopping cart can contain multiple products, and a product can be part of multiple shopping carts.

"Creates" an Order: One-to-One relationship indicating that each shopping cart can create a single order.

**Product**:

Attributes:

Name: The name of the product.

Price: The price of the product.

Description: A description of the product.

Image URL: The URL of the product image.

Specifications: Technical specifications or details about the product.

Relationships:

"Belongs to" a Category: Many-to-Many relationship indicating that each product may belong to multiple categories, and each category may include multiple products

"Produced by" a Manufacturer: Many-to-One relationship indicating that many products can be produced by a single manufacturer.

Belongs to" Shopping Carts: Many-to-Many relationship indicating that multiple products can belong to multiple shopping carts, and a shopping cart can contain multiple products.

"Part of" Orders: Many-to-Many relationship indicating that multiple products can be part of multiple orders, and a single order can contain multiple products.

"Ordered by" Users: Many-to-Many relationship indicating that many products can be ordered by multiple users, and a user can order multiple products.

**Category**:

Attributes:

Name: The name of the category.

Description: A description of the category.

Relationships:

"Contains" Products: Many-to-Many relationship indicating that multiple products can belong to a single category, and a single category may contain multiple products.

**Manufacturer**:

Attributes:

Name: The name of the company.

Relationships:

"Produces" Products: One-to-Many relationship indicating that a manufacturer produces multiple products, but each product is produced by a single manufacturer.