

Description of the Fusion Schema and Objects

Fusion pros supplies high quality fitness equipment at wholesale pricing nationwide to schools and athletic departments, commercial facilities, hotels, community centers, health clubs, personal training studios, corporate offices, hospitals and home gyms.

Fusion pro sells products such as cardio fitness equipment, strength training and weight lifting equipment, free weights and cross training equipment.

Fusion stores and maintains information about these products, such as product unique identification number, the product description, product category, product unit price, inventory information and the warehouse where the product is available.

Customer information is also tracked. Each customer has a unique identification number, customer name, company name if it is a business, street address, city, state, phone number, zip code, email addresses for online orders, and an agent for customers who have one.

When a customer places an order, the company tracks the date of the order, how the order was placed, the status of the order, total amount of the order, the agent who helped place the order. If an order is placed online, no agent is recorded. Fusion also tracks the number of items ordered, the unit price, the products ordered and the quantity on hand.

OrderItem Table

The `OrderItem` table has the following attributes:

- **Columns:** `OrderNo` and `ProdNo` (composite primary key), `Quantity`, and `QuotedPrice`.
- **Relationships:**
 - Column `OrderNo` relates one or more rows of the table `order_item` to one row of the table `orders` with the corresponding value of `OrderNo`.
 - Column `ProdNo` relates one or more rows of the table `order_item` to one row of the table `product` with the corresponding value of `ProdNo`.

Orders Table

The `orders` table has the following attributes:

- **Columns:** `OrderNo` (primary key), `CustNo`, `OrderType`, `OrderDate`
- **Relationships:**
 - Column `OrderNo` relates one row of the table `orders` to one or more rows of the table `OrderItem` with the corresponding values of the `OrderNo`.
 - Column `CustNo` relates one or more rows of the table `orders` to one or more rows of the table `customer` with the corresponding value of `CustNo`.

Customer Table

The `customer` table has the following attributes:

- **Columns:** `CustNo` (primary key), `AgentNo`, `CustName`, `CustBalance`, `CustPhoneNumber`, `CustAddress`, `CustCity`, `CustState`, `CustZipCode`
- **Relationships:**
 - Column `CustNo` relates rows of the table `customer` to one or more rows of the table `orders` with the corresponding value of `CustNo`.
 - Column `AgentNo` relates rows of the table `customer` to zero or more rows of the table `Agent` with the corresponding value of `AgentNo`.

Product Table

The `product` table has the following attributes:

- **Columns:** `ProdNo` (primary key), `ProdName`, `ProdDesc`, `ProdUnitPrice`, `ProdInventory`, `ProdCategory` and `ProdWarehouse`
- **Relationships:**
 - Column `ProdNo` relates one row of the table `product` to one or more rows of the table `orderItem` with the corresponding value of `ProdNo`.

Agent Table

The `Agent` table has the following attributes:

- **Columns:** `AgentNo` (primary key), `AgentFirstName`, `AgentLastName`, `Agentaddress`, `AgentCity`, `AgentState`, `AgentZipcode`, `AgentCommision`.
- **Relationships:**
 - Column `AgentNo` relates rows of the table `Agent` to zero or more rows of the table `Customer` with the corresponding value of `AgentNo`.

The Entity Relationship Diagram below shows the relational tables in Fusion schema, the columns in each table and defines the relationships between the tables.

