

Merchandise Fan Store

The Merchandise Fan Store must handle details about merchandise shops, employees, customers, finance, and inventory. Below the requirements and relationships for the database.

Entities and Attributes

1. **Store**
 - **Attributes:** title, team_members, started_date, end_working_date (if applicable), finance_id.
 - **Details:** The main entity that oversees all merchandise shops. It contains information about operational dates and associated financial performance.
2. **Merchandise Shop**
 - **Attributes:** id, location, finance_id, number_of_shop, promotion_id, country_id, main_store_id.
 - **Details:** A store can have multiple merchandise shops located in different regions, each with specific financial details, promotions, and other attributes.
3. **Finance**
 - **Attributes:** daily_income, daily_expenses, monthly_income, monthly_expenses, annual_turnover.
 - **Details:** Tracks the financial performance of the store and its merchandise shops.
4. **Employee**
 - **Attributes:** name, surname, date_of_birth, salary, current_shop, ex_shop (if applicable), email, address, country, city, postal_code, phone, working_days.
 - **Details:** Employees are assigned to specific merchandise shops or the store. Historical records of shops worked in are maintained.
5. **Customer**
 - **Attributes:** name, surname, date_of_birth, email, address, country, city, postal_code, phone.
 - **Details:** Customers provide personal and contact information for purchasing and promotional purposes.
6. **Inventory**
 - **Attributes:** id, title, isbn, amount.
 - **Details:** Tracks stock availability for products in the merchandise shops.
7. **Product**

- **Attributes:** id, title, isbn, product_category_id, price, amount, available, description.
 - **Details:** Includes all products sold in the merchandise shops.
8. **Promotion**
- **Attributes:** id, discount_percentage, start_date, end_date.
 - **Details:** Defines active discounts and promotional campaigns for shops and products.
9. **Order and Order Details**
- **Order Attributes:** id, date_of_order, total_amount, price, order_type_id.
 - **Order Details Attributes:** id, product_id, order_id, quantity, total_price.
 - **Details:** Tracks customer purchases, including the products ordered, quantities, and total price.

Relationships

1. **Store Relationships:**
 - One store manages many merchandise shops.
2. **Merchandise Shop Relationships:**
 - A merchandise shop belongs to one store.
 - A merchandise shop has its own financial data.
3. **Employee Relationships:**
 - Many employees work in one store or one merchandise shop.
 - An employee can have a record of previous shops they worked at.
4. **Customer Relationships:**
 - Customers can place multiple orders.
5. **Inventory and Product Relationships:**
 - Products are stored in inventory, linked to merchandise shops.
 - A product can belong to one category and be part of many orders.
6. **Order Relationships:**
 - Each order has many products, tracked through order details.
7. **Promotion Relationships:**

- Promotions apply to specific products or merchandise shops.
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1. There can be multiple merchandise shops managed by one store.
 2. Each merchandise shop is assigned financial details and can run promotions.
 3. Employees work for one merchandise shop at a time and may switch shops.
 4. Customers can place multiple orders, and order history is maintained.
 5. Inventory and products are managed for each merchandise shop.
 6. Promotions must have valid start and end dates.