

CS 340 Project Proposal : Retail Store

Application

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Overview:

We are designing an application for a Retail Store Operation. This application is rich in opportunities for dataBase design.

Our application will track many of the common tasks revolving around the operations of a retail store environment. This includes tracking Products, Orders, Customers, Suppliers, Outlets, and all of the attributes associated with all of these entities.

Entities: Below

- Products: UPC (primary key), Description, On Hand Inventory, Price, Cost
- Orders: Order ID (primary key), order date
- Product-Orders (junction table)
- Suppliers: Supplier Id Number (primary key), Address, Total Purchases
- Customers: Customer ID Number (pKey), email address, shipping address, Total purchases
- Stores: Store ID (primary key), address data

Relationships:

- Suppliers supply a product: One to one relationship
- Orders have products (Product-Orders): This is a many-to-many relationship. Every order can have multiple products and each product can have many orders.
- Each Customer can make many orders: One to many relationship
- Customers Place Orders: One to Many: Customers can place many orders, however one Order can only belong to one customer.