CMPS 277 Project Proposal

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Project Description:
This project aims at building a database system to keep track of a clothing shop's inventory.

Entities:
We will maintain information about the following set of entities:
1. **Clothes**: Clothes ID, color, brand, material, id, price, gender category (men's wear/women's wear/unisex)
   a. Tops: sleeves, collar, size, type(tank top, blouse, dress shirt…)
   b. Pants: waist size, length, fit, inseam, type (shorts, dress pants, cargo pants…)
   c. Hats: size, type(bowler, top hat...)
   d. Shoes: size, laces, type(running…)
   e. Dresses: length, type (sundress, nightgown, skirt, wrap…)
2. **Clients**: Client ID, name, phone, address, email
3. **Suppliers**: Supplier ID, name, address(country/state/...), phone

Relationships:
The following relationships will hold between our entities
1. Clothes will be bought by zero or more Clients/Clients will buy zero or more clothes
2. Clothes are supplied by one or more Suppliers/Suppliers can supply one or more Clothes

Constraints:
1. The subclasses of Clothes HAVE to belong to Clothes
2. If an entity exists, it's ID can not have a value of NULL

Sample Queries:
1. List all available Clothes
2. List all Suppliers
3. List all Clients
4. List all Clothes of a certain size
5. List all Clothes of a certain brand
6. Search for Clothes that have size X material Y brand Z …
7. List all Clothes from a certain Supplier