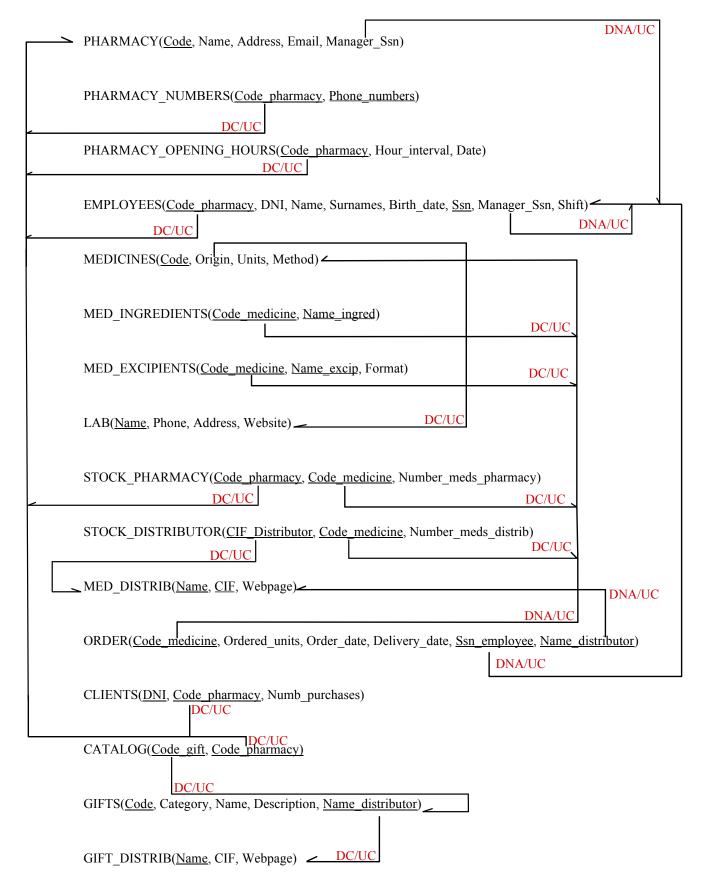
1. RELATIONAL DIAGRAM



2. ASSUMPTIONS

a) ADDITIONAL SEMANTIC ASSUMPTIONS TO THE STATEMENT.

PHARMACY:

- It is assumed that none of the pharmacies share the same name.
- It is assumed that a pharmacy has only one manager.

PHARMACY_NUMBERS:

- It is assumed that a pharmacy may have more than one phone number.

PHARMACY_OPENING_HOURS:

- The key Hour_interval was created to control the shifts that will be needed to properly match the opening hours of the pharmacy. For example, if the hour interval is 09:00 13:00, then it will be known that at least one person with the morning shift is needed. Moreover, if the hour interval is 09:00 20:00, at least two persons will be needed: one with the morning shift, and another one with the afternoon shift.
- The key Date in the relation PHARMACY_OPENING_HOURS was included because holidays were considered.
- It is assumed that every shift will be covered by an available employee so that the pharmacy opening hours are covered.

EMPLOYEES:

- It is assumed that one person works uniquely in one pharmacy.

MEDICINES:

- When a medicine is sold under the name of its active ingredient, it is called a generic medication.

LAB:

- When a laboratory is removed from the database, all the medications it provides are also to be removed.

STOCK PHARMACY:

- When there are less than 3 units left of medication, the pharmacy must order more of said medication from the distributor.

STOCK DISTRIBUTOR:

 Once the pharmacy receives the order, the number of ordered units will be subtracted from the STOCK_DISTRIBUTOR.Number_meds_distributor.
Similarly, the number of medicines from the pharmacy's stock will increase by the ordered units.

MED DISTRIB:

- Distributors cannot be removed from the database while orders from said distributor are pending.

ORDER:

- Employees may only place orders for medication when the distributor can deliver them within a maximum of two days.
- It is assumed that only managers can place orders.

CLIENTS

- Each client may decide to register or not. In case the decision of registering is taken, it is assumed that each pharmacy has a minimum number of purchases (determined by each pharmacy) so that the client may receive a gift. This is controlled by adding +1 to CLIENTS.Numb_purchases each time a client buys something in that specific pharmacy.
- Additionally, clients may be registered in more than one pharmacy. This implies that they may accumulate 'points' in different pharmacies, and therefore, receive gifts from these.
- b) ADDITIONAL SEMANTIC ASSUMPTIONS TO THE SCHEMA.
 - EMPLOYEES.Shift = {Morning, Afternoon}.
 - MEDICINES.Origin = {Lab, Company, Active ingredient}.
 - MEDICINES.Method = {Oral, Intravenous}.
 - MED EXCIPIENTS.Format = {Capsule, Tablet, Pill, Cream, Spray, Syrup}.