
Exercise on conceptual data modelling

4.11.2010

Consider the description of the *Apartments Management* application:

1. Each apartment block has a name (which identifies it) and an address, and has one or more buildings, each of which contains a number of apartments;
2. If the apartment block has more than one building, each of them has a code (e.g. building A) which identifies it together with the name of the block;
3. Each apartment is identified, in its respective block, by the building (if many exist) and by a number (the apartment number) and has a rental charge;
4. Each apartment has an owner and a tenant; for both of them, we are interested in the name, surname, social security number; for the owners we want to store also their address and telephone numbers; each person can be the owner of many apartments but can be the tenant of one apartment only.

Build the conceptual schema (ER diagram) of this application. Please mark the identifiers of all entities and the cardinality constraints of all relationships.