Building

QA owns several buildings, each of which have a distinct address including post code.

Apartment

There are several apartments within each of those buildings (one building – many apartments). Each apartment in a given building is assigned an apartment number that is unique within that building (but not necessarily across different buildings). QA wants to keep track of the number of bedrooms, the number of bathrooms and the total area (in square feet) for each apartment. (See manager: Manager Number)

Person

The system manages information for different kinds of people. As of now, QA manages two *disjoint* categories of people: tenants and employees. Each person is identified by a unique ID, and has information consisting of their first name and last name. For each person, the system would maintain emergency contact information , specifically, the name and contact number of a person to be contacted (relation?)

Tenant

For each tenant, it is necessary to record their bank account number, since rent needs to be collected every month*. (Tenant ID?)

Employee

For each employee, the application will keep track of their monthly salary. Employees may be managers or technicians (or both).

Manager

Each manager has an office located in one of the apartments owned by QA. Each manager manages at least one apartment, and each apartment must have a manager(Manager ID and Employee ID).

Technician

Technician Skills

For each technician, the system would keep track of the skills they have; which may be one or more of the following: "carpentry", "plumbing", "electrical". (TechnicianID, SkillID)

Lease

A lease agreement is a formal contract, identified uniquely by an ID, signed by one or more tenants (see "LeaseTenant") to lease an apartment. It includes the start date and expected duration of occupation (in terms of number of months), as well as the monthly rent charged for the apartment. The lease agreement is also signed by any one of the managers at QA. The system keeps track of all (expired and live) lease agreements signed so far.

Similarly, even if a tenant ceases to be one, their details are *not purged* from the system in anticipation of future custom. (Possible query to remove as tenant but not as person).

LeaseTenant

To rent an apartment from QA, tenants must sign a lease agreement. (LeaseID, TenantID).