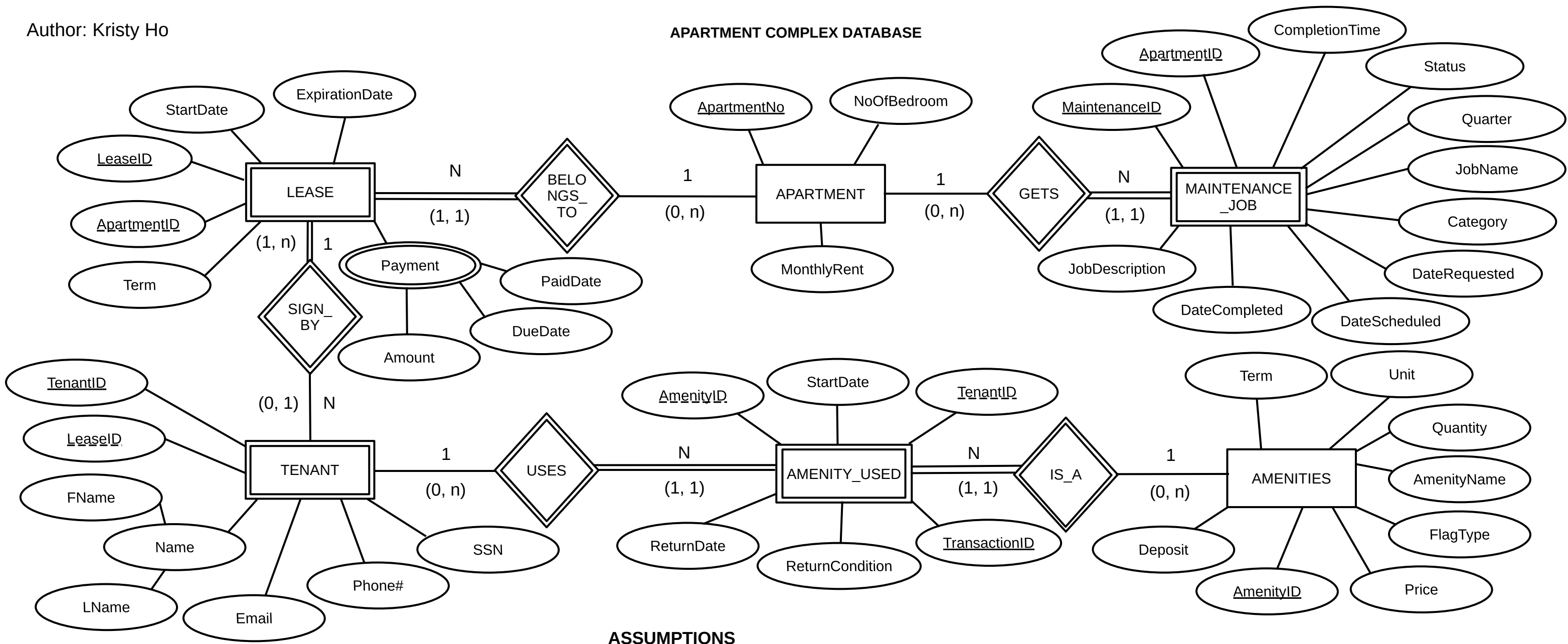


APARTMENT COMPLEX DATABASE



ASSUMPTIONS

Key pairs

- LEASE.LeaseID = TENANT.LeaseID
- APARTMENT.ApartmentNo = LEASE.ApartmentID
- APARTMENT.ApartmentNo = MAINTENANCE_JOB.ApartmentID
- TENANT.TenantID = AMENITY_USED.TenantID
- AMENITIES.AmenityID = AMENITY_USED.AmenityID

Cardinality constraints

- A LEASE can only belong to one apartment and an APARTMENT can be associated with as many leases as needed (when someone moves out, there will be another lease, etc).
- A LEASE can be belong to multiple TENANTS and a TENANT can only sign one lease.
- AN APARTMENT can get as many MAINTENANCE_JOBS as needed and a MAINTENANCE_JOB is be given to an APARTMENT.
- A TENANT can use as many AMENITIES_USED as needed and a AMENITY_USED is used by one TENANT.
- An AMENITY_USED is one AMENITY and a AMENITY becomes a AMENITY_USED as many times as needed.

(min, max) constraints

- An APARTMENT can exist in my database before it has a MAINTENANCE_JOB. An APARTMENT can get as many MAINTENANCE_JOBS as needed.
- A MAINTENANCE_JOB must belong and be done only to a single APARTMENT before it is entered in my database.
- An APARTMENT can exist in my database before it has a LEASE (unoccupied/new building). An APARTMENT can have as many leases associated with it as needed.
- A LEASE must only belong to a single APARTMENT before it is entered in my database.
- A LEASE must be signed by at least one TENANT before it exists in my database. A LEASE can be signed by as many TENANTS as needed.
- A TENANT does not have to sign a LEASE to exist in my database. A TENANT can only sign a maximum of one LEASE.
- A TENANT can exist in the database before it has an AMENITY_USED. A TENANT can use as many AMENITIES_USED as needed.
- An AMENITY_USED must be only be used by a single TENANT before it is entered in my database.
- An AMENITY must exist before it turns into a AMENITY_USED.