## Participation Constraints

Property has a total relationship with Branch for the handles relationship because we assume that every property is handled by a branch.  Branch has a partial participation with Property for the handles relation because not all branches necessarily handle properties.

Client has total participation with Branch for the has relationship because we assume all clients have a home branch.  Branch has a partial participation with Client for the has relationship because a new or under construction branch may not have any clients.

Property has a total participation for the has relation because we assume all properties are owned by a client.  Client has partial participation between property for the has relationship because there can be clients who do not have a property.

Both StaffMember and Property have partial participation in the listedBy relationship because we assume there could be staff members who don't list properties (like a teller) and also properties that aren't currently listed (like a brand new property or a property under renovations).

There is total participation for StaffMembers in the worksAt relation because all staff members work at a branch.  There is partial participation for Branch in the worksAt relation because a branch could be new or under construction and not have any StaffMembers.

## Business Constraints

* There is a finite number of employees
  + The business cannot afford to give every real estate agent in the world a job
* There is a finite number of branches
  + Oversaturating any given location with branches would reduce the demand of any one branch
* Email must be unique per Client/StaffMember (no shared accounts)
  + Email will be used as a unique identified for login and query purposes
* A Client cannot exist without an email address
  + Email will be used as a unique identified for login and query purposes
* A Branch cannot exist without a location
  + This particular business model operates with the branch as the central hub for all StaffMembers of the branch. Unlike a web-based business this branch cannot conduct business without a physical location.
* A Property cannot exist without a location
  + When querying a buyer is required to select location. Properties cannot populate the query without this information.
* Every entity (Client, Branch, StaffMember and Property) must have a unique integer-based ID
  + The ID is used to create relationships between entities and relationships as well as for identification purposes
* Clients can have more than one Property and property type
  + Clients can simultaneously be buying, selling or renting property at any given time
* Branches can have more than one Property
  + Though somewhat obvious this is an assumption of the business practice
* Properties can only have one branch
  + Though somewhat obvious this is an assumption of the business practice
* Clients and StaffMembers MUST have one phone number but the database can accommodate multiple phone entries
  + Ex. Cell, Work and the elusive Home phone number
* StaffMembers MUST have one address but the database can multiple addresses
  + Ex. Work and Home

## Business Constraints not covered by Design

* There is no relationship between StaffMember or Client
  + If a StaffMember is also a Client there is no mapping to indicate this relationship
  + Relationships only exist between Property and Client or Client and Listing Agent