**Analysis of Cardinality and participation Constrains**

**Business Rules**

1. An employee is allocated to many branch offices, and a branch office is allocated by many employees.

An employee has Employee number, employee id, name, address, position, salary, the assigned supervisor.

1. An employee is assigned to many supervisor & assistants, and a supervisor & assistant is assigned to many employees.

An employee has Employee number, employee id, name, address, position, salary, the assigned supervisor.

1. A branch office has many business owners, and a business owner can register in one branch office.

A business owner has name of business, type of business, address, telephone number, email, password, and contact name.

1. A branch office has many private owners, and a private owner can register in one branch office.

A private owner has owner id, name, address, telephone number, email, and password.

1. A branch office can register many properties for rent, and a property for rent can be registered in one branch office.

A property for rent has property number, property id, address (street, city, and postcode), type, number of rooms, monthly rent, and the details of the property owner.

1. A private owner can own many properties for rent, and a property for rent can be owned by one private owner.
2. A Business owner can own many properties for rent, and a property for rent can be owned by one private owner.
3. A branch office has many clients, and a Client can register in one branch office.

A Client has client id, name, telephone number, email, preferred type of accommodation, and the maximum rent that the client is preferred to pay.

1. Several leases can be signed by a client

A Lease has lease number, client number, name and address, property number and address, monthly rent, method of payment an indication of whether the deposit has been paid( calculated as twice the monthly rent), duration of lease, and the start and end dates of the lease period.

1. A Client can sign many leases, and a Lease must be signed by one Client.
2. A property for rent can be rented out for many leases, and a Lease can be drawn for one property for rent.