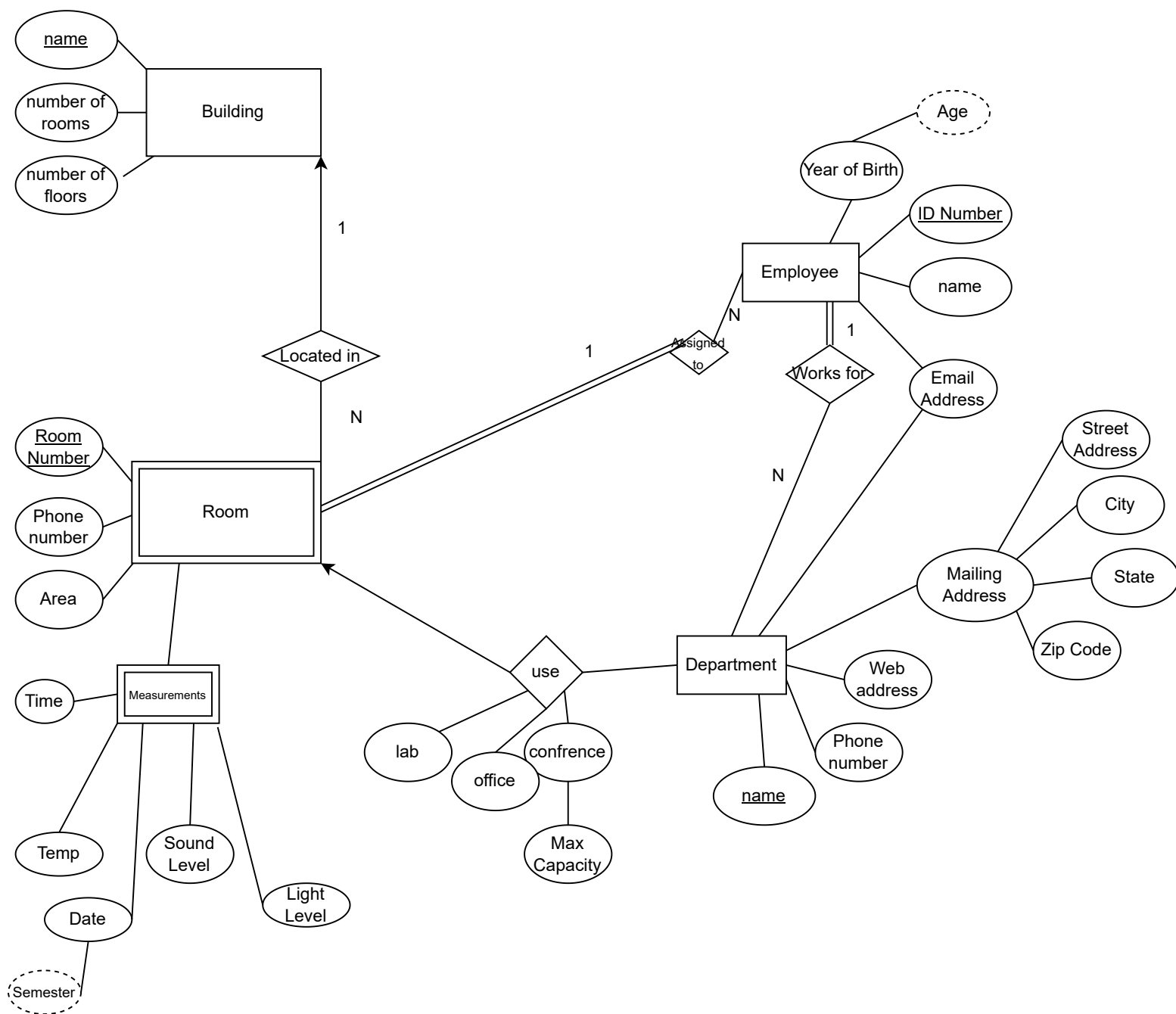## Assumptions

All departments are rooms in buildings

If a room's use is as a department, then it can only have a second use as either nothing or an office

If a header is underlined and not specified as the primary key, it doesn't mean anything
I just couldn't get them to stop being underlined. Foreign keys will be made clear

Each employee will hava a table of room IDs they are associated with + the building (aka, which rooms they are assigned to).

Use 1 of rooms contains the following options: Lab, Office, Conference, Department

Use 2 of rooms contains the same as 1, but with the addition of NONE and the removal of "department"

The Columns marked with a "Ref:" are foreign keys referencing other tables
The combination of all columns marked "Unique" in a table form a unique key

Because it formatted weird, here are some of the relations that might have gotten lost or confused
1 mailing address: 1 department
1 room to 1 optional department (it might be a department!)
Many measurements : 1 room
Many optional employees : 1 room
Many Employees : 1 Department
Many Rooms : 1 Building

Building

PK	Name (string)	Number of floors	Number of rooms (int)

Associated Room IDs (int)

Employee

PK	ID Number (int)	name (string)	Age (int)	Year of Birth: DDMMYYYY	Email Address (string)	Department (string)	Assoc. Room Ids
		Unique		Unique	Unique	Ref: Department	Ref: Associated Room IDs

Room

PK	Room Number (int)	Phone Number (int)	Area:Square_Feet (float)	Use 1(string)	Use 2 (string)	Measurements	Max Capacity (int)

		Unique			Unique	Unique	Ref: Measurement	

Measurements

PK	Room Number (int)	Time:HHMMSS (int, 24hr clock format)	Date:DDMMYYYY (int)	Temperature (float)	Semester (String)	Sound Level:db (int)	Light Level:Lux (int)
	Ref: Room	Unique	Unique				

department

PK	Name (String)	Room Number (int)	Phone Number (int)	Web Address (string)	Mailing Address	Email Address (String)	Employees
		Ref: Room		Unique	Unique Ref: Mailing Address	Unique	Ref: Employee

Mailing Address

PK		Street Address (String)	City (String)	State (String)	Zip Code (Int)