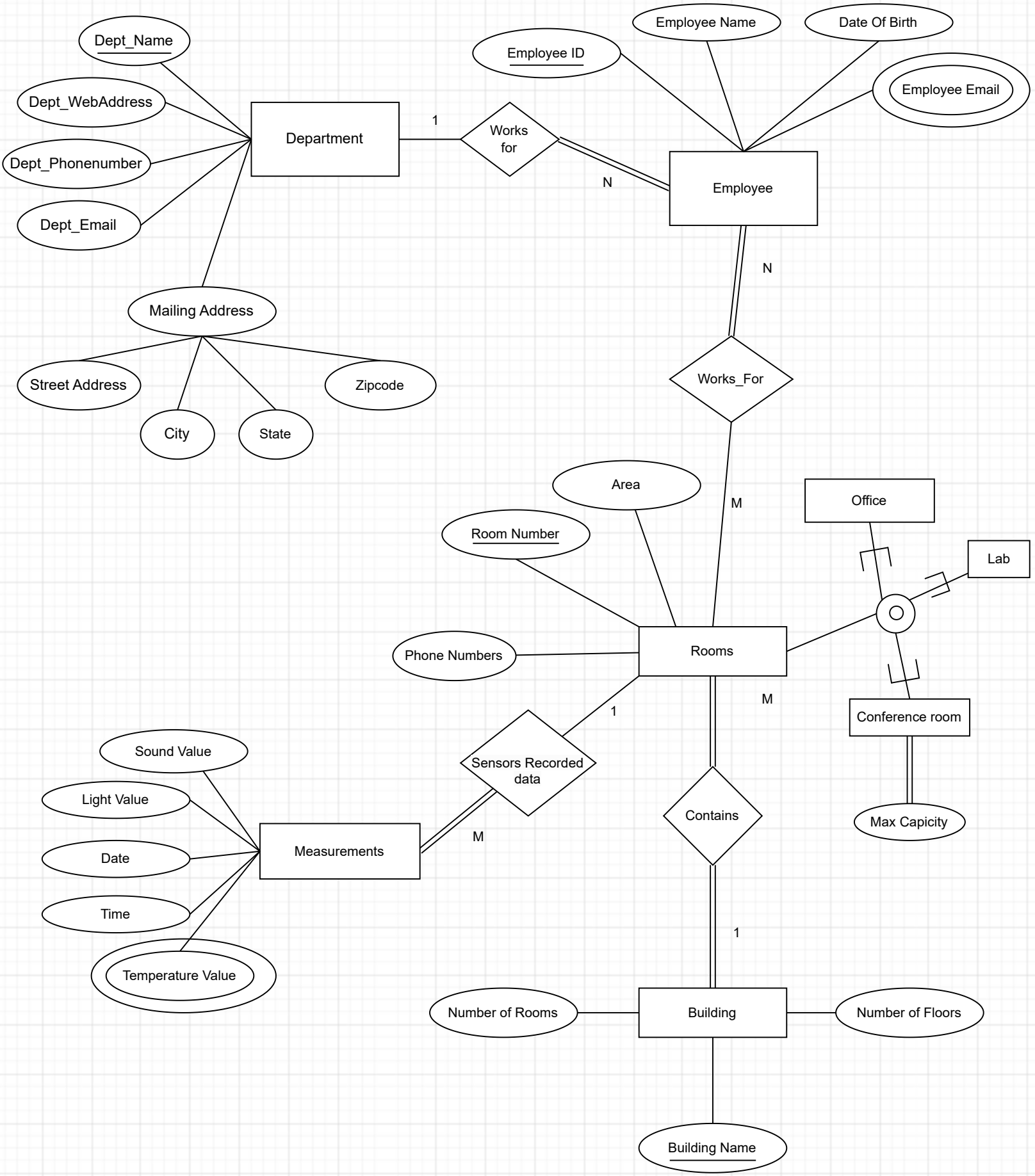
Dept_Name
Dept_WebAddress
Dept_Phonenumber
Dept_Email
Department
1
Works for
N
Employee ID
Employee Name
Date Of Birth
Employee Email
Employee
N
Mailing Address
Street Address
City
State
Zipcode
Works_For
M
Area
Room Number
Office
Lab
Rooms
Phone Numbers
M
1
Conference room
Max Capicity
Sensors Recorded data
Contains
Sound Value
Light Value
Date
Time
Temperature Value
Measurements
M
1
Number of Rooms
Building
Number of Floors
Building Name

Entities and Attributes:

1. Department
   Attributes: Department Name, Web Address, Phone Number, Email Address, Mailing Address: Street Address, City, State, Zip Code.
2. Building
   Attributes: Building Name, Number of Rooms, Number of Floors
3. Rooms
   Attributes: Room Number, Area, Phone Numbers, Max Capacity (Conference Rooms)
4. Employee
   Attributes: Employee ID (Primary Key), Name, Year of Birth, Email Addresses
5. Measurement
   Attributes: Date, Time, Sound Value, Temperature Value, Light Value

Relationships:

1. Department Entity Relationships:
   - D-E: Department-Employee Relationship (One-to-Many)
   - Each department can have multiple employees (One department can have many employees).
   - D-B: Department-Building Relationship (Not mentioned in the design description, but can assume a relationship where a department is associated with a building.)
   - Each department may be located in a building (One department can be in one building).

2. Building Entity Relationships:
   - B-R: Building-Room Relationship (One-to-Many)
   - Each building can have multiple rooms (One building can have many rooms).

3. Room Entity Relationships:
   - R-E: Room-Employee Relationship (Many-to-Many)
   - Each room can have multiple employees, and each employee can work in multiple rooms (Many employees can work in many rooms).
   - R-M: Room-Measurement Relationship (One-to-Many)
   - Each room can have multiple measurement records (One room can have many measurements).

4. Employee Entity Relationships:
   - E-D: Employee-Department Relationship (Many-to-Many)
   - Each employee can work in multiple departments, and each department can have multiple employees (Many employees can work in many departments).

5. Measurement Entity Relationships:
   - M-R: Measurement-Room Relationship (Many-to-One)
   - Each measurement is associated with one room (Many measurements are associated with one room).

In the explanations:

- "One-to-Many" means one entity is associated with many instances of another entity.
- "Many-to-One" means many entities are associated with one instance of another entity.
- "Many-to-Many" means many entities can be associated with many instances of another entity.