

**Worked example:**

We need to create a database schema design based on the following (simplified) requirements of the COMPANY database:

- The company is organized into DEPARTMENTS.
- Each department has a name, number, an employee who *manages* the department.
- We keep track of the start date of the department manager.
- A department may have several locations.
- Each department may have several locations.
- Each department *controls* a number of PROJECTs.
- Each project has a unique name, unique number and is located at a single location.
- We store each EMPLOYEE's social security number, address, salary, sex, and birthdate.
- Each employee *works for* one department but may *work on* several projects.
- We keep track of the number of hours per week that an employee currently works on each project.
- We also keep track of the *direct supervisor* of each employee.
- Each employee may *have* a number of DEPARTMENTS.
- For each dependent, we keep track of their name, sex, birthdate, and relationship of the employee.

STEP 1: List the entities.

STEP 2: Choose an entity and list their attributes.

ENTITY:

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Entities and Attributes

Step 3: Draw your Entity using the nomenclature in todays class.