

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 and 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 *controls* a number of PROJECTS. Each project has a unique name, unique number and is located at a single location.

The database will store each EMPLOYEE's social security number, address, salary, sex, and birthdate.

Each employee *works for* one department but may *work on* several projects.

The DB will keep track of the number of hours per week that an employee currently works on each project.

It is required to keep track of the *direct supervisor* of each employee.

Each employee may *have* a number of DEPENDENTS.

For each dependent, the DB keeps a record of name, sex, birthdate, and relationship to the employee.