

Text description of the “Company”



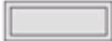









1. The company is organized into departments. Each department has a name, number and an employee who manages the department. We keep track of the start date of the department manager. A department can be spread over multiple locations.
2. Each department controls a number of projects. Each project has a name, number and is located at a single location.
3. We store each employee’s social security number (AHV-Nr), name, address, salary, sex, and birth- date. 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.
4. Each employee may have a number of dependents. For each dependent, we keep track of their name, sex, birthdate, and relationship to employee - for insurance purposes.

Conceptual design of DB “Company”

Department

Name, ...
...
...
...
...
...
...

Notation in ER-Diagram

Symbol	Meaning	Symbol	Meaning
	Entity		Composite Attribute
	Weak Entity		Derived Attribute
	Relationship		Total Participation of E_2 in R
	Identifying Relationship		Cardinality Ratio 1: N for $E_1:E_2$ in R
	Attribute		Structural Constraint (min, max) on Participation of E in R
	Key Attribute		
	Multivalued Attribute		

ER-Diagram "Company"

(Sketch Entities and Relationships with pencil only, as they may change)

Logical design of "Company"

