

# COMPANY Data Model

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## Abstract

This document implements the COMPANY Data Model.

## 1 Data Model Description

The COMPANY database keeps track of a company's **employees**, **departments**, and **projects**

1. The company is organized into departments.  
Each department has a unique **name**, a unique **number** and a particular employee who **manages** the department. We keep track of the **start date** when that employee began managing the department.  
A department may have several **locations**
2. A department **controls** a number of projects, each of which has a unique **name**, a unique **number**, and a single **location**
3. The database will store each employee's **name**, **Social Security number**, **address**, **salary**, **sex(gender)**, and **birth date**.  
An employee **is assigned** to one department, but may **work** on several projects, which are not necessarily controlled by the same department. It is required to keep track of the current **number of hours per week** that an employee works on each project  
\*\*\*\* as well as the direct **supervisor** of each employee (who is another employee). \*\*\*\*
4. The database will keep track of the **dependents** of each employee for insurance purposes, including each dependent's **first name**, **sex**, **birth date**, and **relationship** to the employee.

## 2 E-R Model

COMPANY...

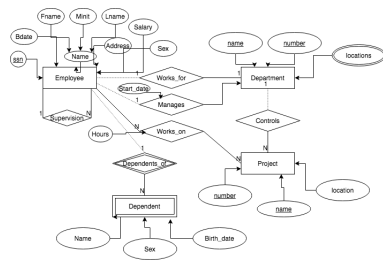


Figure 1: COMPANY E-R Model

### 3 Relational Model

COMPANY Relational Model

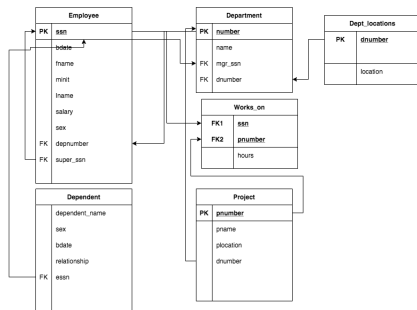


Figure 2: COMPANY Relational Model