

Company Data Storage Requirements

The company is organized into **branches**. Each branch has a **unique number**, a **name**, and a particular employee who manages it.

The company makes it's money by selling to **clients**. Each client has a **name** and a **unique number** to identify it.

The foundation of the company is it's **employees**. Each employee has a **name**, **birthday**, **sex**, **salary** and a **unique number**.

Commented [IC1]: Derived attribute: Age

An **employee** can **work for** one branch at a time, and each branch will be **managed** by one of the employees that work there. We'll also want to keep track of when the current manager **started** as manager.

An employee can act as a **supervisor** for other employees at the branch, an employee may also act as the supervisor for employees at other branches. An employee can have at most one supervisor.

A branch may **handle** a number of clients, with each client having a name and a unique number to identify it. A single client may only be handled by one branch at a time.

Employees can **work with** clients controlled by their branch to sell them stuff. If necessary multiple employees can work with the same client. We'll want to keep track of how many dollars worth of stuff each employee sells to each client they work with.

Many branches will need to **work with** **suppliers** to buy inventory. For each supplier we'll keep track of their **name** and the **type** of product they're selling the branch. A single supplier may supply products to multiple branches.

Here is what I designed a ER diagram based on above diagram:

