**Case 1**

**A big company has decided to store information about its projects and employees in a database. The company has wisely chosen to hire you as a database designer. Prepare an E-R diagram for this Company according to The following Description:**

* The company has a number of employees each employee has **SSN**, **Birth Date**, **Gender** and **Name** which represented as **Fname** and **Lname**.
* The company has a set of departments each department has a set of attributes **DName**, **DNUM** (unique) and **locations**.
* Employees work in several projects each project has **Pname**, **PNumber** as an identifier, **Location** and **City**.
* Each employee may have a set of dependent; each dependent has **Dependent Name** (unique), **Gender**, and **Birth Date**.

Note: if the employee left the company no needs to store his dependents info

* For each Department, there is always one employee assigned to manage that Department and each manager has a **hiring Date**
* Department may have employees but employee must work on Only One department
* Each department may have a set of projects and each project must assigned to one department
* Employees work in several projects and each project has several employees and each employee has a **number of working hours** in each project
* Each employee has a supervisor