

PRACTICE 01 (01/10/2019)

Entity-Relationship Model

High School Study

The high school director needs to create a data base to control the daily life. We, as technicians, have to create an Entity/Relationship diagram following the technical specifications.

Technical Specifications:

We have people working in our high school. Some of them are students, other are teachers and the rest are non-teaching staff.

We have modules that are taught by teachers and studied by students.

We have classrooms in which modules are taught by teachers to the students.

The common attributes for any kind of people are:

DNI, Name, Surname, Date of Birth, Phone numbers (It is possible to have more than one), **Address** (Include: **Type of road** that can be: *-Street, Avenue-, Number, Floor, Letter*), **Age**

Students have their own attribute: **Registration Number**

Teachers have their own attribute: **Modules to teach**

Non-teaching staff have their own attribute: **Type of Job** (*Maintenance service, Cleaning service*)

There are the following relations:

- 1 Student has 1 or more teachers
- 1 Teacher has 1 or more students
- 1 Teacher teaches 1 or more modules
- 1 Student assists to 1 and just 1 classroom
- 1 Classroom has 0 or more students
- 1 Teacher goes to 1 or more classrooms
- 1 classroom has 0 or more teachers
- 1 Student studies 1 or more modules
- 1 module is studied by 1 or more students