1. INITIAL PROJECT DESCRIPTION

We are going to create a database which use is going to be directly related to aliments. The goal of our database is to provide a determined patient with a diet following its main characteristics (age, height, weight) Therefore, we will need a group of nutritionists. They are the ones who will be in charge of the development of the diets. We will storage data for aliments mainly, and we will use this data in order to create new diets for our patients in the nutritional center.

We will use a relational database, a type of database that stores and provides access to data points that are related to one another.

In order to generate data for our database, we will use csv files for some of our tables. For the rest of the tables, we will try to generate data automatically with the tools we will see in class (Python)

1. RDBMS deployment

In the schema of our database, we will have the following tables: Food, Patient, Nutritionist, Diet and List\_Of\_Food. One Diet will consist of different kinds of Food, a Diet will be created by a Nutritionist (although a Nutrionist can create more than one) and a Nutritionist will take care of one or more Patients. The table List\_Of\_Food is created as a consequence of the relation between Diet and Food (a relation M:N creates a new table including the primary keys of both tables included in the relation)

Firstly, we have introduced the table Food, which has the food ID as the primary key. The rest of columns of the table are related with information such as the energy in kcal and KJ that provides the food, the quantity of Protein and Fiber in food in every 100 grams…

Then the table to register the information about the Patient has been created and fulfilled with relevant information about it in order to organize the new diet. It also stores the current diet that the person is following and the intolerances, information that can be quite useful in order to design a new diet.

The table of the Nutritionist is created also with an ID as the primary key. It also contains information about the name of the nutritionist and the specialty that he or she has (obesity, for example)

For the diets we have another table. As an identifier, we have and ID for the diet (primary key) Also, a description and a Creator are columns for this table. The Description will contain the different steps to follow in order to do the diet.

The data which has been introduced in the table Food has been obtained by a csv file in https://www.fao.org/infoods/infoods/tablas-y-bases-de-datos/es/

SUGERENCIAS DE CONSULTAS

Comidas con más de 20 gramos de proteínas

Todos los pacientes que son tratados por el nutricionista X

Las dietas que ha creado un nutricionista X