

Project statement

Choose a topic on which the project to be developed by your group should focus. The theme corresponds to, for example, a library, a bookstore, a football league, a shop, an amusement center, a zoo, etc. The subject must be accepted by the teacher.

The project consists of two distinct parts. Take the example of a zoo,

In part 1, a list of functionalities that reflect the dependencies between entities and between attributes should be described: for example, there are species of animals, there are animals that are individually identified; There are also cages and caretakers; each caretaker is in charge of treating one or more cages; each animal is feathered in a cage that may have several animals. Sometimes animals get sick, which involves administering medication, etc. Visitors must also be managed at the Zoo, which can be adults, children or the elderly; prices may be different for each age group. Etc .. The dependencies involved should not be "targeted" for specific applications, since the organization of the data should be independent of the applications. A DB must be drawn in tables resulting from the Entity-Relation Model application. Create a Sqlite script with the creation of the DB. Given the complexity required and the time required for the design of the project, the number of DB tables should be between 10 and 20, although these limits are not rigid.

In Part 2, verify that the DB that you created by applying the ER Model is in the BCNF Normal Form or, if not, in the 3rd FN. Present this analysis in the same way as in the second practical class. Also create the SQL solutions for queries requested by the teacher for the concrete case of your project.