The relational database is structured as in the following (we used mysql):

* The **users** tablecontains all the data about people that have a profile on the system (we are talking about authorized people). We store the name, surname, birthday, address, telephone’s number and we distinguish every registered person with a unique id.
* The **groups** table contains all the info about the group of peoples (or categories) that have responsibility and special permission in some kind of area.
* The **services** table contains all the services that can be accessed by authorized groups.
* The **users\_groups** table contains different pairs of user’s id and group’s id and identifies which person belong to a determinate group.
* The **groups\_services** table contains different pairs of group’s id and service’s id and represent which services are available for a specific group.
* The **groups\_areas** table is used to store the ids of groups that have some kind of authorization in a specific area, identified by the respective id.
* The **areas** table is used to store all the data about the different areas that the system monitors.
* The **cameras** table contains all the data about every camera that is deployed in the system. Indeed, in this table there is a field that contains the id of the area in which the camera has been positioned.
* The **sensors** table contains all the data about every sensor that we have used for each area (this table contains also a field with the id of the area in which the sensor has been positioned).
* The **actuators** table contains all the data about every actuator that we have used for each area (also this table have a field that contains the id of the area in which the actuators has been positioned).
* The **events** table contains all the information about all the possible events that are generated in the system.
* The **sensors\_actuators** table contains the information about the relation between sensors and actuators, the single row of the table says which sensor triggers a certain actuator.
* The **cameras\_actuators** table contains the information about the relation between cameras and actuators, the single row of the table says which camera triggers a certain actuator.
* The **handle** table contains the data concerning the relation between events and actuators, in particular we want to keep a log in which we store which actuator has been activated for a certain event.