**Modelo relacional**

Room (id, name)

Actuator (id, state,#id->type, #id\_room, description)

Sensor (id, #id->type, #id\_room)

User (id, name, password, #id->category)

Rules (id, sensortype, value\_max, value\_min, description)

RegistActuator (#id->Actuator, #id->room, timestamp)

RegistSensor (#id->Sensor , #id->Room, timestamp, value)

SensorType (#id, name, description)

UserCategory (#id, name, description)

**DDL**

CREATE TABLE "RegistActuator" (

registactuator\_id integer NOT NULL,

actuator\_id integer NOT NULL,

"timestamp" integer,

state character varying(30)

);

CREATE TABLE "Actuator" (

actuator\_id integer NOT NULL,

state character varying(20),

type\_id integer,

room\_id integer,

description character varying(200)

);

CREATE TABLE "UserCategory" (

category\_id integer NOT NULL,

name character varying(50),

description character varying(200)

);

CREATE TABLE "RegistSensor" (

registsensor\_id integer NOT NULL,

sensor\_id integer,

"timestamp" integer,

value real

);

CREATE TABLE "Room" (

room\_id integer NOT NULL,

name character varying(50)

);

CREATE TABLE "Rules" (

rules\_id integer NOT NULL,

actuator\_id integer NOT NULL,

value\_max integer,

value\_min integer,

description character varying(200),

sensor\_id integer

);

CREATE TABLE "Sensor" (

sensor\_id integer NOT NULL,

type\_id integer,

room\_id integer

);

CREATE TABLE "SensorType" (

type\_id integer NOT NULL,

name character varying(20) NOT NULL,

description character varying(200)

);

CREATE TABLE "User" (

user\_id integer NOT NULL,

name character varying(20) NOT NULL,

password character varying(50) NOT NULL,

category\_id integer NOT NULL

);