actuator

id (PK)	name	actuator_state	time	id_divisions (FK)	day	act_matrix_id
0	LIGHT	ON	18:57:03+01	0	2018-04-24	0
1	BLINDS	OFF	18:57:25+01	0	2018-04-24	1
2	HEAT	ON	18:58:11+01	0	2018-04-24	2
...	...	...	...	...	...	...

actuator_future_state

id (PK)	future_state	id_actuator (FK)	id_rules (FK)
0	ON	0	0
1	OFF	1	0
2	OFF	0	1
...	...	...	...

apartment

id (PK)	floor	number	proprietary	num_divisions	address_building (FK)
0	0	0	Armando Luís Sousa Araújo	4	Rua Dr. Roberto Frias, 4200-465 Porto
...	...	...	...	...	...

building

address_building (PK)	num_floors	owner	num_apartments
Rua Dr. Roberto Frias, 4200-465 Porto	1	Daniel, Pedro e Ricardo Lda.	1
...	...	...	...

divisions

id (PK)	name	num_sensors	num_actuators	id_apartment (FK)	num_rules
0	ROOM1	2	3	0	4
1	ROOM2	3	3	0	2
2	LIVING_ROOM	2	1	0	2
...	...	...	...	...	...

rules

id (PK)	name_sensor_condition1	operator_condition1	threshold_condition1	name_sensor_condition2	operator_condition2	threshold_condition2	sampling_period	schedule	time	id_divisions (FK)	day	num_actuators_future_state	logic_operator
0	LIGHT1	<	250	NULL	NULL	NULL	NULL	NULL	18:25:22+01	0	2018-04-24	2	NULL
1	LIGHT1	>	450	NULL	NULL	NULL	NULL	NULL	18:29:08+01	0	2018-04-24	2	NULL
2	TEMP1	<	15	NULL	NULL	NULL	NULL	NULL	18:30:39+01	0	2018-04-24	1	NULL
...	...	...	...	...	...	...	...	...	...	...	...	...	...

sensor

id (PK)	mote_id	sensor_type	data	time	id_divisions (FK)	day	sens_matrix_id
0	1	TEMP	10	18:52:26+01	0	2018-04-24	0
1	1	LIGHT	200	21:02:32+01	0	2018-04-24	1
2	2	TEMP	20	18:53:52+01	1	2018-04-24	0
...	...	...	...	...	...	...	...

users

id (PK)	name	permission	password	state	id_apartment (FK)
0	Daniel Silva	admin	FCPORTO	1	0
1	Pedro Albergaria	admin	BULLS	1	0
2	Ricardo Sousa	admin	SLBENFICA	1	0
...	...	...	...	...	...

users_activity

id (PK)	id_users (FK)	activity_description	time	day
0	0	Rule's table updated - new rule	19:20:43+01	2018-04-24
...	...	...	...	...