WEEK3

Sep 11



Bulb:

Remove numeric data 'level' keep 'switch' on / off

```
df.shape
  (9306, 5)

df = removeCap(df, 'level')

df.shape
  (6407, 5)
```

Remove fluctuating data: Motion / acceleration

```
device Motion Sensor Bedroom Door cap motion original has 4091 events, 2904 gets removed device Motion Sensor Living Room cap motion original has 764 events, 392 gets removed device Zooz Bathroom cap motion original has 19 events, 12 gets removed device Zooz Bedroom cap motion original has 24 events, 5 gets removed device Multipurpose Sensor cap acceleration original has 78 events, 8 gets removed device Multi Front Door cap acceleration original has 5 events, 2 gets removed
```



Add new device: new correlation generated.

	A B	С	D	E	F	G	н	- 1	J	K
1	dev_l	cap_l	pattern	dev_r	cap_r	hit	history	total	rate	alarms
2	2 Motion Sensor Living Room	motion	0->0	Bathroom mid	switch	3	176	186	0.96236559	7
3	3 Motion Sensor Living Room	motion	1->1	Doorway light	switch	135	48	186	0.98387097	3
4	34 Multipurpose Sensor	contact	0->1	Motion Sensor Bedroom Door	motion	4	32	37	0.97297297	1
5	35 Multipurpose Sensor	contact	0->0	Multipurpose Sensor	acceleration	24	13	37	1	0
6	40 Multipurpose Sensor	contact	0->0	Doorway light	switch	11	25	37	0.97297297	1
7	36 Multipurpose Sensor	contact	1->0	Multipurpose Sensor	acceleration	16	19	36	0.97222222	1
8	41 Multipurpose Sensor	contact	1->0	Doorway light	switch	5	30	36	0.97222222	1
9	14 Multipurpose Sensor	acceleration	1->1	Motion Sensor Bedroom Door	motion	3	31	35	0.97142857	1
10	25 Bathroom right	switch	1->1	Motion Sensor Bedroom Door	motion	1	26	28	0.96428571	1
11	22 Bathroom mid	switch	1->1	Motion Sensor Bedroom Door	motion	1	25	27	0.96296296	1
12	23 Bathroom mid	switch	1->0	Motion Sensor Living Room	motion	4	22	27	0.96296296	1
13	26 Bathroom right	switch	0->0	Motion Sensor Living Room	motion	6	21	27	1	0
14	24 Bathroom mid	switch	0->0	Motion Sensor Living Room	motion	5	21	26	1	0
15	31 Button	button	0->1	LIFX Light	switch	8	10	18	1	0
16	27 Button	button	1->0	Slight3	switch	6	5	11	1	0
17	28 Button	button	1->0	Slight1	switch	7	4	11	1	0
18	29 Button	button	1->1	Slight1	switch	6	5	11	1	0
19	30 Button	button	1->0	Slight2	switch	6	5	11	1	0
20	10 Zooz Bedroom	motion	0->0	Doorway light	switch	4	6	10	1	0
21	13 Zooz Bedroom	motion	0->0	Zooz Bedroom	illuminance	1	9	10	1	0



Add new device: new correlation generated.

4	Α	В	С		D		E		F		G	Н		- 1		J		K	
1	~	dev_l	▼ cap_l	₩	pattern	₹ .	dev_r	₩	cap_r ▼	h	it 🔻	history	₩	total	ra	te 🔻	al	larms	₩
2	2	Motion Sensor Living Room	motion		0->0		Bathroom mid		switch		3		176	186	0	.9623655	9		7
3	3	Motion Sensor Living Room	motion		1->1		Doorway light		switch		135		48	186	0	.9838709	7		3
4	34	Multipurpose Sensor	contact		0->1		Motion Sensor Bedroom Door		motion		4		32	37	0	.9729729	7		1
5	35	Multipurpose Sensor	contact		0->0		Multipurpose Sensor		acceleration		24		13	37	7		1		0
6	40	Multipurpose Sensor	contact		0->0		Doorway light		switch		11		25	37	0	.9729729	7		1
7	36	Multipurpose Sensor	contact		1->0		Multipurpose Sensor		acceleration		16		19	36	0	.9722222	2		1
8	41	Multipurpose Sensor	contact		1->0		Doorway light		switch		5		30	36	0	.9722222	2		1
9	14	Multipurpose Sensor	accelera	ation	1->1		Motion Sensor Bedroom Door		motion		3		31	35	0	.9714285	7		1
10	25	Bathroom right	switch		1->1		Motion Sensor Bedroom Door		motion		1		26	28	3 0	.9642857	1		1
11	22	Bathroom mid	switch		1->1		Motion Sensor Bedroom Door		motion		1		25	27	0	.9629629	6		1
12	23	Bathroom mid	switch		1->0		Motion Sensor Living Room		motion		4		22	27	0	.9629629	6		1
13	26	Bathroom right	switch		0->0		Motion Sensor Living Room		motion		6		21	27	7		1		0
14	24	Bathroom mid	switch		0->0		Motion Sensor Living Room		motion		5		21	26	5		1		0
15	31	Button	button		0->1		LIFX Light		switch		8		10	18	3		1		0
16	27	Button	button		1->0		Slight3		switch		6		5	11	L		1		0
17	28	Button	button		1->0		Slight1		switch		7		4	11	L		1		0
18	29	Button	button		1->1		Slight1		switch		6		5	11	L		1		0
19	30	Button	button		1->0		Slight2		switch		6		5	11	L		1		0
20	10	Zooz Bedroom	motion		0->0		Doorway light		switch		4		6	10)		1		0
21	13	Zooz Bedroom	motion		0->0		Zooz Bedroom		illuminance		1		9	10)		1		0



THANKS!

Name

Title

Email

Social

