



BARCELONA ROAD TRAFFIC ACCIDENTS: WHAT HAPPENS IN AUGUST

SABBAH & ELLIOTT

PROJECT GOALS

Our playlist...

- 'Here comes the summer sun'
- 'It's a long days night'
- 'Working 9 to 5'



Skills used...

- Locate
- Understand
- Pandas, SQL
- Interrogate
- Report

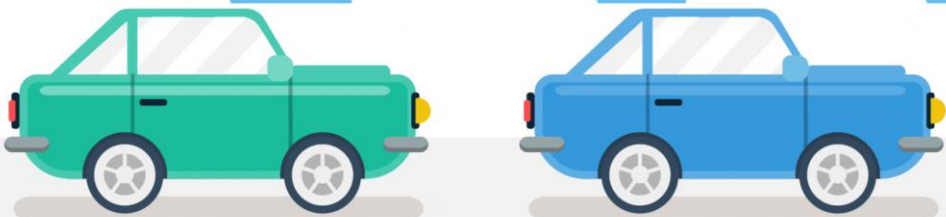
DATA SOURCE

Who, why?

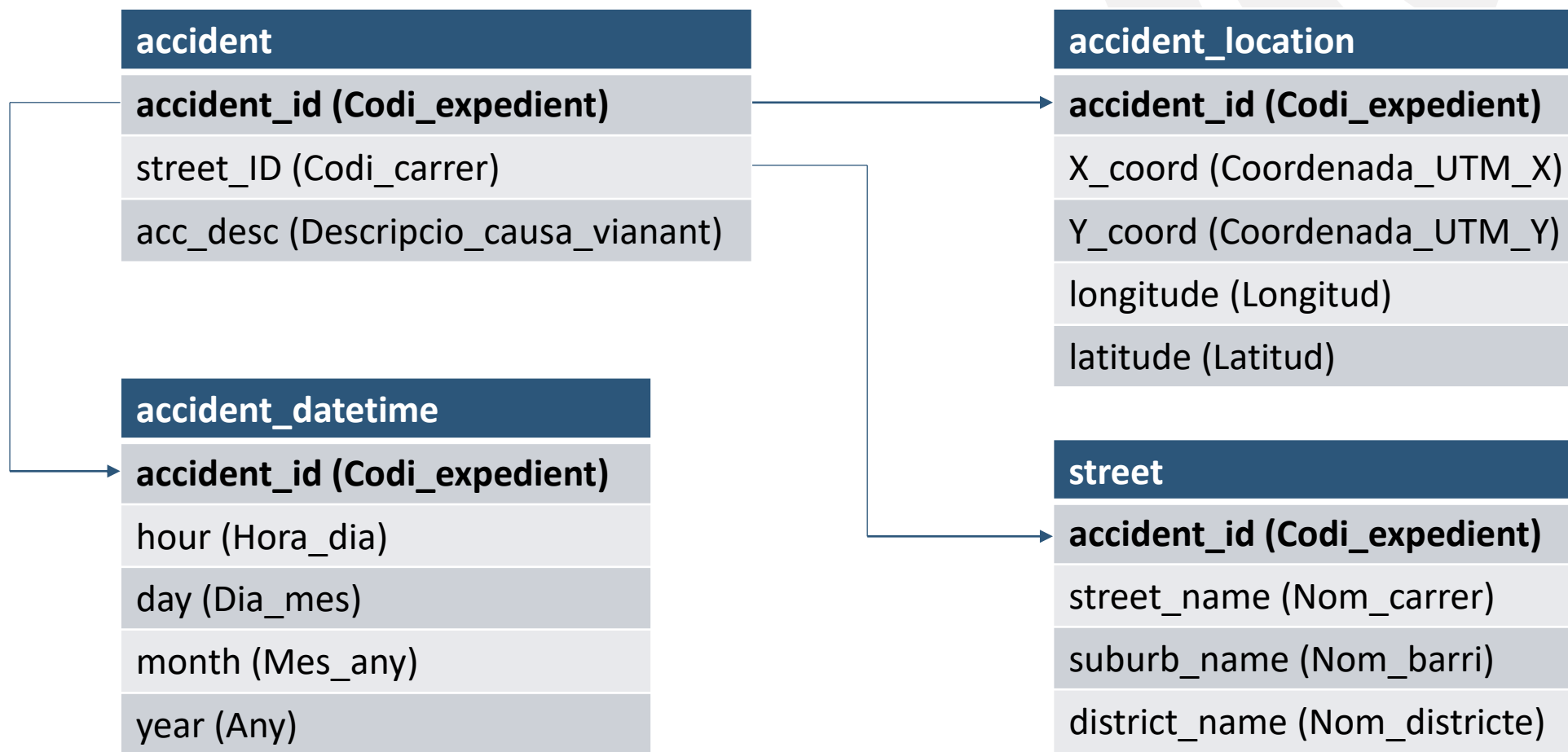
- Open Data BCN
- “Hem après algun català”

Where, what, when?

- Repeating identifiers, UTF8, trailing white space



ERD



FINDINGS

INFLUENCE OF MONTH

10 - Oct	989
5 - May	874
7 - July	864
3 - Mar	862
4 - Apr	853
1 - Jan	851
6 - Jun	828
11 - Nov	805
12 - Dec	800
2 - Feb	770
9 - Sep	751
8 - Aug	683

Time (Hrs)

0	165
1	121
2	85
3	73
4	66
5	77
6	195
7	313
8	546
9	572
10	511
11	575

Time (Hrs)

12	535
13	677
14	704
15	615
16	625
17	622
18	659
19	605
20	579
21	427
22	352
23	231

INFLUENCE TIME OF DAY

FINDINGS

AUGUST – BY HOUR

Time (Hrs)	#	Time (Hrs)	#
0	16	12	38
1	10	13	59
2	13	14	48
3	7	15	50
4	4	16	39
5	9	17	42
6	21	18	37
7	17	19	29
8	26	20	31
9	30	21	27
10	35	22	29
11	47	23	19

Time (Hrs)	#	Time (Hrs)	#
0	15	12	43
1	16	13	61
2	6	14	75
3	5	15	55
4	11	16	66
5	8	17	79
6	18	18	58
7	36	19	57
8	61	20	53
9	64	21	30
10	56	22	43
11	51	23	22

OCTOBER– BY HOUR

FINDINGS

INFLUENCE OF SEASONS

Season

Autumn 2593

Spring 2553

Summer 2297

Winter 2477

DISTRICT

Ciutat Vella 560

Eixample 2945

Gràcia 462

Horta-Guinardó 723

Les Corts 671

Nou Barris 551

Sant Andreu 676

Sant Martí 1184

Sants-Montjuïc 1032

Sarrià-Sant Gervasi 1116

LEARNING & FURTHER RESEARCH

We're smart...

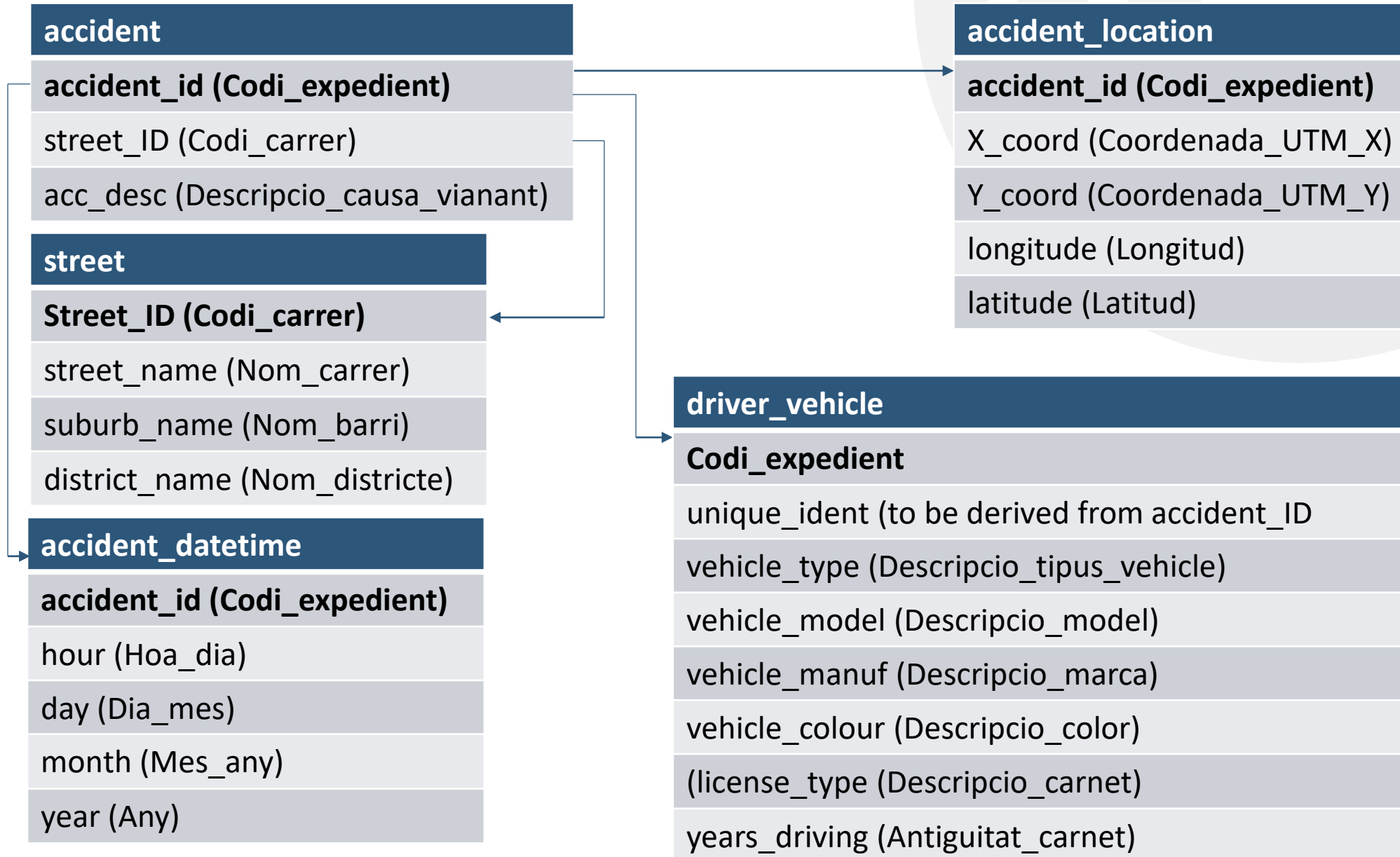
- Clean data in Pandas
- Create AWS DB
- Panda -> SQL
- Created relational DB

But could be smarter...

- Look at multiple years
- Overlay different data sets



PROPOSED ERD FOR FUTURE IMPROVEMENTS





THANK YOU!