

BARCELONA
ROAD TRAFFIC
ACCIDENTS:
WHAT HAPPENS IN
AUGUST?

SABBAH & ELLIOTT

PROJECT GOALS

Our playlist...

- 'Here comes the summer sun'
- 'A hard days night'
- 'Working 9 to 5'



Skills used...

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

DATA SOURCE

Who, why?

- Open Data BCN
- "Hem après català"

Where, what, when?

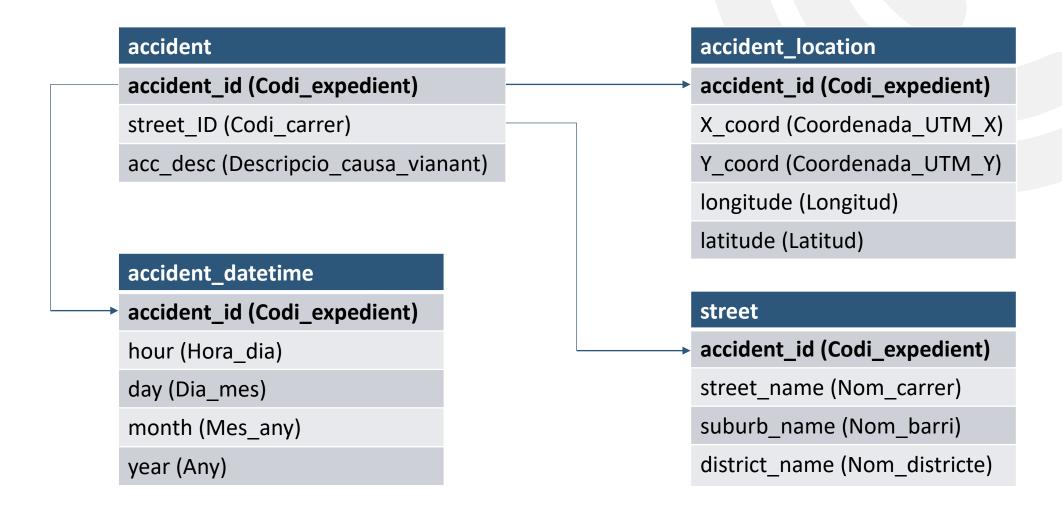
- Repeating identifiers, UTF8, trailing white space
- Process







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)		Time (Hrs)	
	0	165	12	535
	1	121	13	677
	2	85	14	704
	3	73	15	615
	4	66	16	625
	5	77	17	622
	6	195	18	659
	7	313	19	605
	8	546	20	579
	9	572	21	427
	10	511	22	352
	11	575	23	231

INFLUENCE TIME OF DAY

FINDINGS

ΛΙ	П		П	C.	Τ-	R	V	ш		П	D
A		U	U		_	D	I	п	U	U	$\mathbf{\Gamma}$

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



Autumn 2593

Spring 2553

Summer 2297

Winter 2477

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...

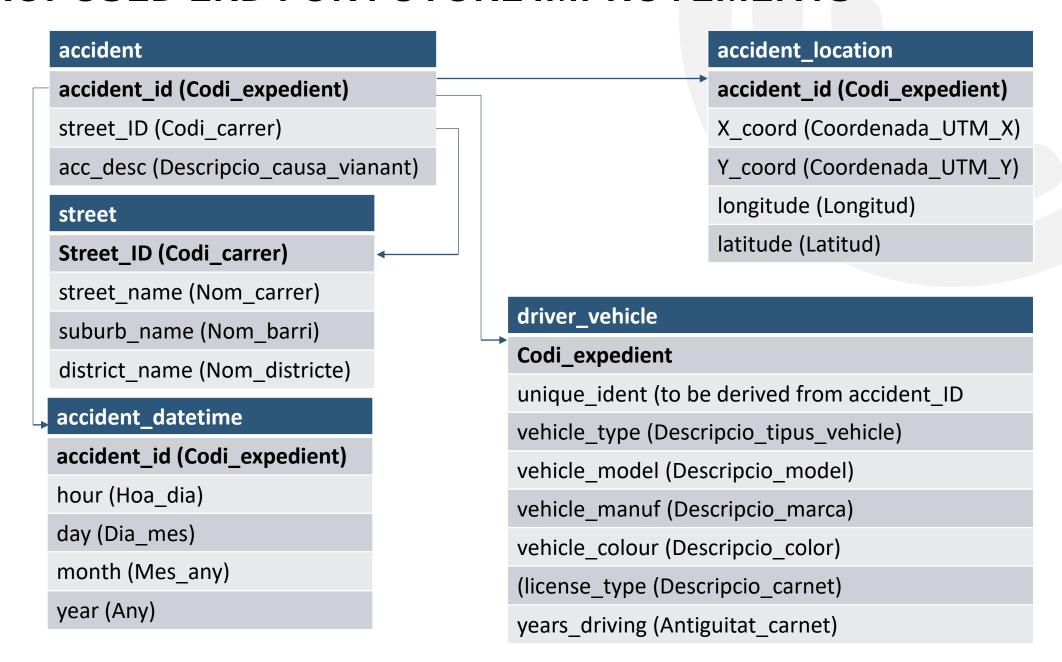
- Clean data in Pandas
- Create AWS DB
- Pandas -> SQL
- Created relational DB

But could be smarter...

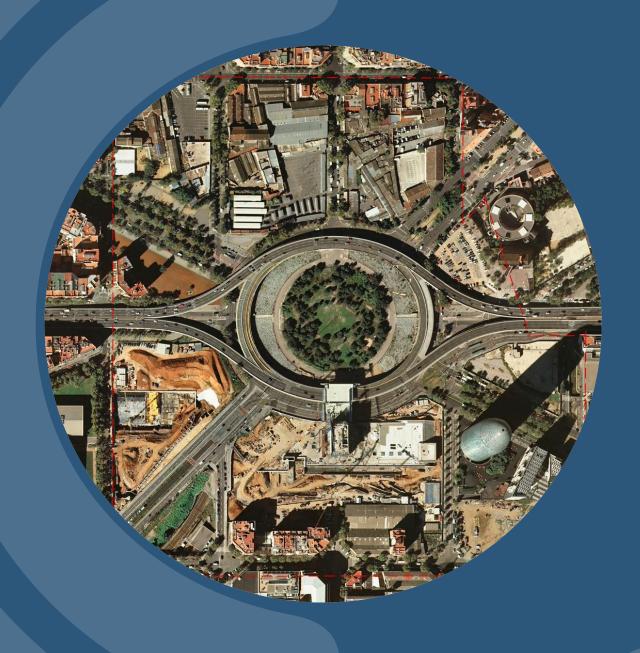
- Look at multiple years
- Overlay different data sets



PROPOSED ERD FOR FUTURE IMPROVEMENTS







THANKYOU!