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Data Science amb Python

Sprint 19

S19 T01: Interactive display with ElasticSearch Stack

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Description

We are beginning to become familiar with the interactive display of graphics using Kibana.

Nivel 1

• Exercise 1

Download Kibana and display some graphs using Example datasets.

Here are some examples from sample data n Kibana



Nivel 2

• Exercise 1

Implement a dashboard that interactively displays the data you choose.

The chosen dataset comes from the site Kaggle and contains information about a test written by some students.

First, I will check if the dataset needs some cleaning.

```
In [1]: #import libraries

import pandas as pd

#Load the dataset

df_scores = pd.read_csv('test_scores.csv')

df_scores.head()
```

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Out[1]:		school	school_setting	school_type	classroom	teaching_method	n_student	student_i
	0	ANKYI	Urban	Non-public	60L	Standard	20.0	2FHT
	1	ANKYI	Urban	Non-public	60L	Standard	20.0	3JIVI
	2	ANKYI	Urban	Non-public	6OL	Standard	20.0	3XOW
	3	ANKYI	Urban	Non-public	6OL	Standard	20.0	5560
	4	ANKYI	Urban	Non-public	6OL	Standard	20.0	74LO
In [3]:	df_scores.info()							
	Ra: # # 0 1 2 3 4 4 5 6 6 7 8 9 1 dt;	ngeInde ta colu Colu scho scho clas teac n_st stud geno lunc pret 0 post	ool ool_setting ool_type ssroom ching_method cudent dent_id der	Les, 0 to 21 Columns): Non-Null Columns 2133 non-nu	ount Dtyp ount obje ill obje	ect		
In [4]:	d	df_scores.isnull().sum()						
Out[4]:	sc: sc: cl: te: n_: st: ge: lu: pr:	hool hool_ty assroom aching_ student_i udent_i nder nch etest sttest ype: ir	rpe 0 method 0 c 0 d 0 0 0 0 0 0 0 0 0					
In [6]:	d	df_scores['school_setting'].value_counts()						

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Out[6]: Urban 906 Suburban 717 Rural 510

Name: school_setting, dtype: int64

We can see there is no null values in the dataset.

Next, we can see some graphs from this dataset done on Kibana.





Nivel 3

• Exercise 1

Implement a dashboard that generates graphics using each of the different types of graphics that Kibana offers.

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In []: