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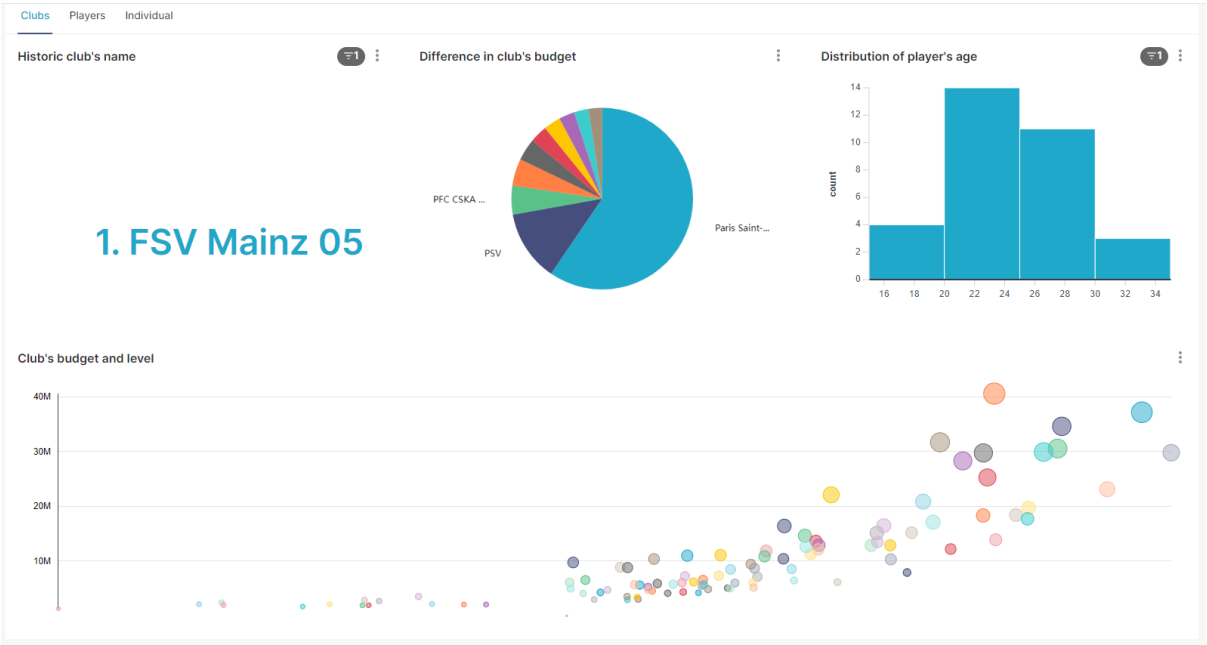
Fifa 22 Player Search Engine.

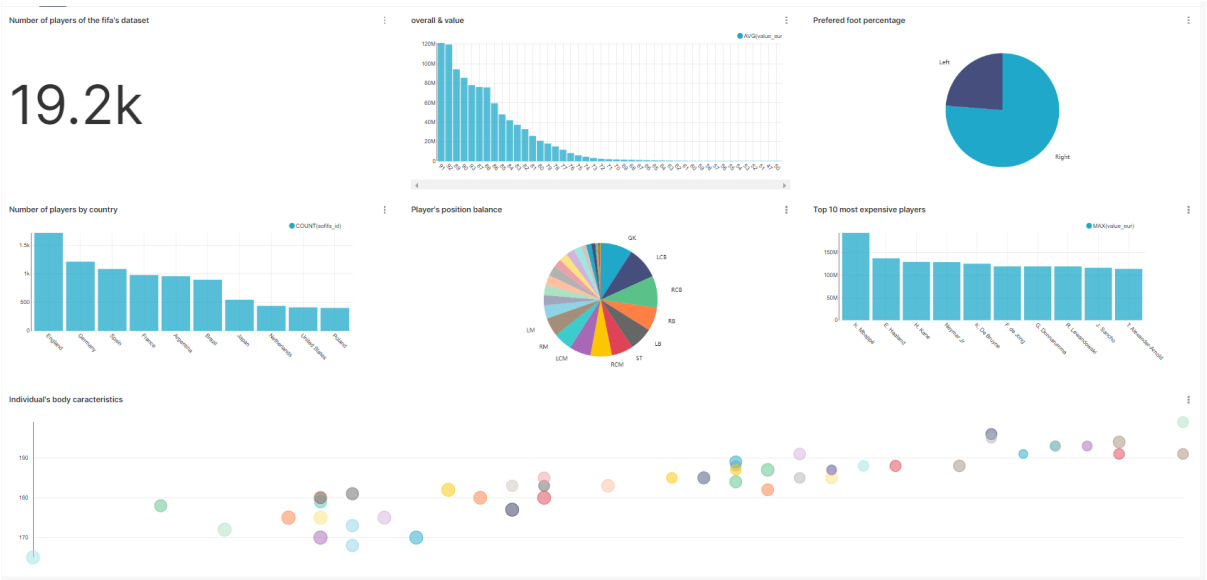
I. Apache Superset Dashboard

The dashboard is built around 3 parts : clubs, players and individuals. All parts give information about different points of view and different levels of the dataset.

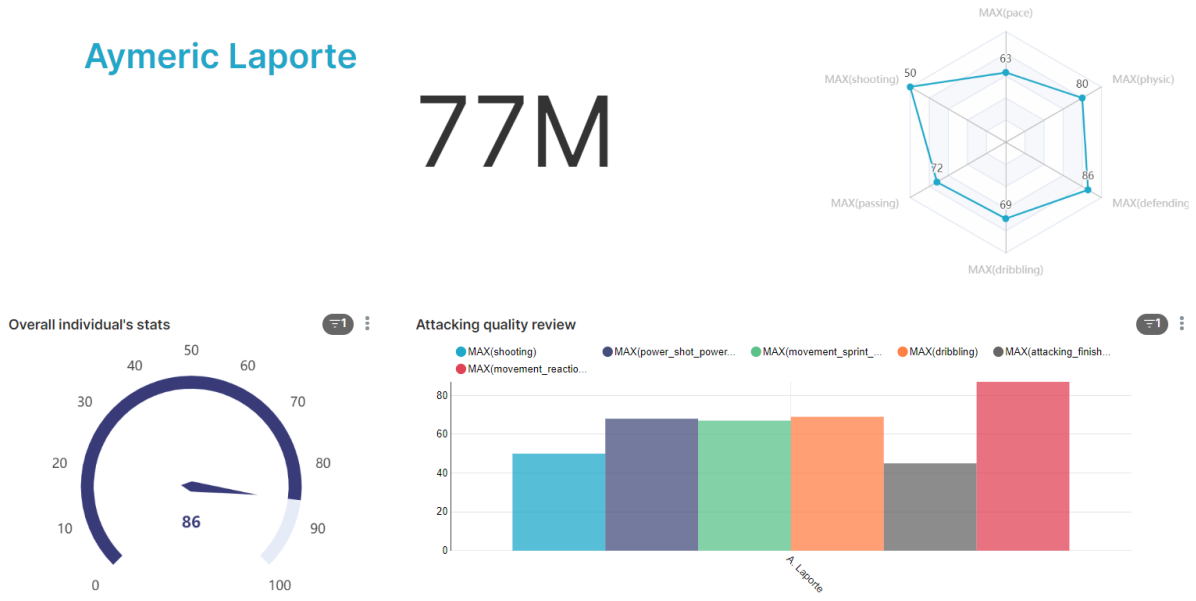
In the first part, we can find some graphs : bubble charts, bar charts, pie charts. A filter can be applied to the page in order to focus on a club. The pie chart allows users to see the difference between the club's budget that could be really enormous. Another bar chart allows users to see the distribution of player's age in order to see if the team is good balance or is more oriented to young or experienced players. The last one shows how the average overall level of a team's players progress at the same time as club total player's values.



The second part focuses on all the players' data. For example, we extract the statistic on the number of players by positions on the field or by prefered foot. We also tried to show on the last bubble chart if a huge physic (high height/weight) impacts the mobility and agility of players. The result is not as explicit as expected but allow us to see that most of the player's with a little physics were very mobile and most of the player's with a huge physic have difficulties to move easily.
We also underline the increase of the player's value when the overall level is high. Of course, players with really high potential are really expensive and especially if they are young.



The third part focuses on individual player’s statistics. First of all, names and values are printed with huge characters on the dashboard. After, a spyder graph allows the user to see the main quality of the player and his capacity to be multi-skilled. A gauge graph shows the overall skills of the player compared to the maximum value of 100/100. And we also focus on a player's attacking skills with the bar chart displaying some important qualities for a scorer.



II. Webapp

The webapp has two search methods.
The first method is searching by their short names, and the second method is searching by filtering their minimum age & minimum overall fifa ratings.

First, you can search your favorite players by their short names such as ‘Mbappé’ or ‘Kane’. You can just type in any parts of the name to search the players.

For example, this is the case of searching ‘Mbappé’ . You can check the player’s face photo, full name, age, overall fifa rating, transfer price, and annual salary.

After that, if you want to search for more players, you can just click ‘Search another player?’ and explore more.

For the case when you can't remember the player who you want to find, you can just type in the part of the name and we will find you the player.

Fifa 22 Player's Search Engine

Face	Name	Age	Overall Fifa Rating	Transfer Price	Annual Salary
	Harry Kane	27	90	129M €	24M €
	N'Golo Kanté	30	90	100M €	23M €
	이강인 Kang-In Lee	20	74	9M €	1M €

Like this, you can just search 'Kan' and get all the results including the name 'Kan' in their names. This way, you can find the players you partially remember. The results are sorted by their overall fifa ratings.

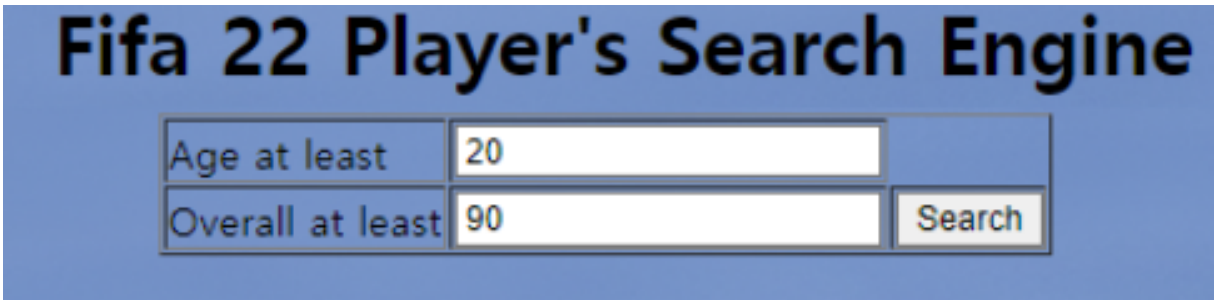
The upper-case letters need to be distinguished from lower-case letters. This process is needed to distinguish if the search word is only a part of their names, or the starting point of their names. For example, the results for searching ‘Kan’ and ‘kan’ have different results.

Fifa 22 Player's Search Engine

Face	Name	Age	Overall Fifa Rating	Transfer Price	Annual Salary
	Manuel Obafemi Akanji	25	80	25M €	5M €
	Mohamed Simakan	21	75	12M €	3M €
	Gökhan Akkan	26	72	2M €	M €

In this way, you can see how different the result differs from the previous result. Without this difference, the search results will include all the players’ names which have the search name without considering whether it has a capital letter on front or not.

The second method is searching by their age and overall fifa ratings. You can search by filtering their minimum age and minimum overall fifa ratings.



Fifa 22 Player's Search Engine

Face	Name	Age	Overall Fifa Rating	Transfer Price	Annual Salary
	Lionel Andrés Messi Cuccittini	34	93	78M €	32M €
	Robert Lewandowski	32	92	119M €	27M €
	Cristiano Ronaldo dos Santos Aveiro	36	91	45M €	27M €

For example, if you want to search players who are above the age of 20 and have the overall stats above 90, you can just type in 20 and 90. Here, you can check that Messi has the highest overall fifa rating.

To summarize, our project used a dataset from kaggle, utilized the dataset to visualize on the Apache Superset Dashboard, and used the dataset to make a search engine webapp through MongoDB, JupyterLab.