Graded Project Power BI Week 6

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8. How based on the positional data, players are profiled for different roles/classes. Plot Aggression, Acceleration, Agility, Balance and Ball Control for strikers and Goal Keepers in a single line/Bar plot to understand the positional difference
9. Which clubs consists of the best future players? Consider only the players with Overall < 86 and Potential >=86, plot a graph to show which are the top 10 clubs with most number of best future player

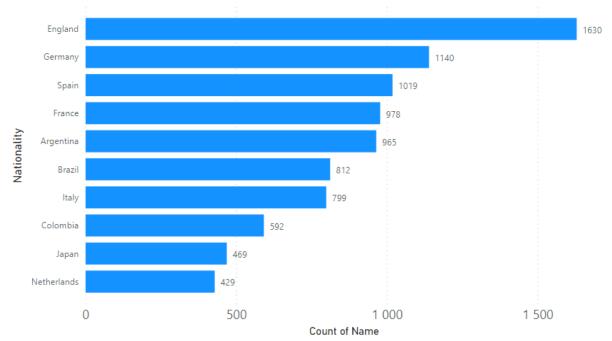
FIFA Player Data

Business Context

In this project, we will be looking at the player data provided by FIFA which contains information such as personal details, wages, physical attributes, technical skills, potential and their positional strengths. This is primarily data of FIFA 2018. Through this project, you will get a glimpse of insights behind the beautiful game and the kind of information and decisions a football manager goes through. Explore the data and attempt all the below asked questions in a step by step manner

1. Prepare a rank ordered list of top 10 countries with most players. Which countries are producing the most numbers of footballers that plays at this level?



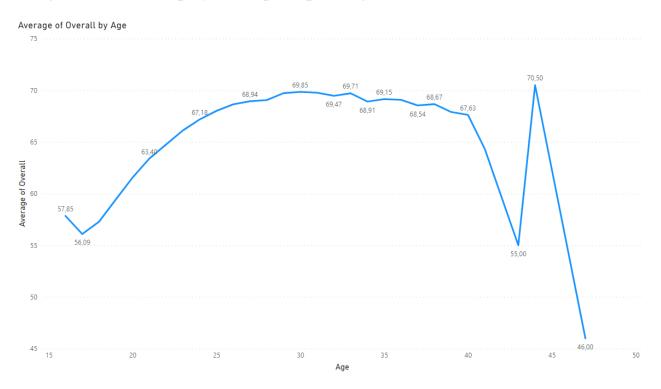


Nationality	Count of Name
England	1630
Germany	1140
Spain	1019
France	978
Argentina	965
Brazil	812
Italy	799
Colombia	592
Japan	469
Netherlands	429

England is producing the greatest number of players at this level

• From the above table, we see that England produces 1630 footballers this is being followed by Germany and Spain.

2. Plot the distribution of overall rating vs. age of players. Interpret what is the age after which a players stops improving?

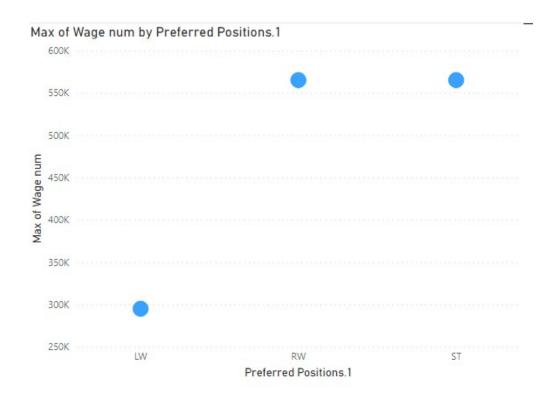


- According to the distribution of overall rating vs. age of players, a player stops improving at an age after 44 with an average overall of 70,5
- Up to 30, players are improving their overall score and most of them have achieved the peak. However, it is observed that players around 42 are making significant leap in advance of overall score.

3. Which type of offensive players tends to get paid the most: the striker, the right-winger, or the left-winger? Visualize through a scatter plot



• On an average, the left-winger and the right-wigner are paid the most, around 15k. However, the striker gets only 13k on average.



Preferred Positions.1 Max of Wage num

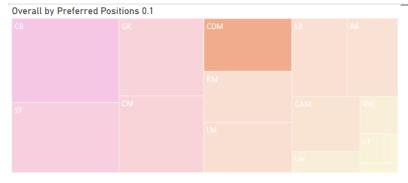
LW	295 000,00
RW	565 000,00
ST	565 000,00

• The maximum wage of right-wigner and striker is equal to 565k, but striker is paid only 295k.

4. Top 5 players for every preferred position in terms of overall as well as potential points. Who were the best in 2018? Who were destined to be the future superstars in that year?

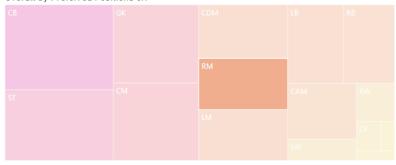
Top 5 players for every preferred position in terms of overall





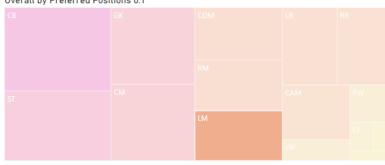
Overall Preferred Positions
90 CDM CM
89 CDM CM
88 CDM CAM CM
87 CDM CM
87 CDM CM

Overall by Preferred Positions 0.1



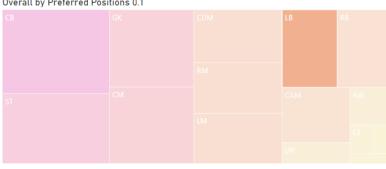
Name	Overall	Preferred Positions	^
A. SÃ;nchez	89	RM LW ST LM	
K. De Bruyne	89	RM CM CAM	
J. RodrÃguez	86	RM CM CAM	
Y. Carrasco	85	RM LM	
Bernardo Silva	84	RM	V

Overall by Preferred Positions 0.1



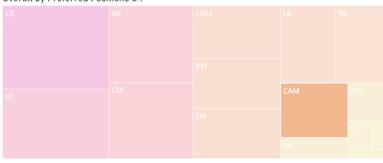
Name	Overall	Preferred Positions	^
C. Eriksen	87	LM RM CAM	
David Silva	87	LM CM CAM	
Iniesta	87	LM CM	
Alex Sandro	86	LM LB	
Isco	86	LM RM CAM CM	~

Overall by Preferred Positions 0.1

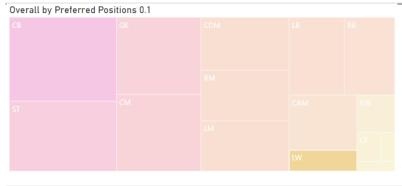


Name	Overall •	Preferred Positions	^
Marcelo	87	LB	
Azpilicueta	85	LB RB CB	
Filipe LuÃs	85	LB	
Jordi Alba	85	LB	
L. Baines	82	LB	~

Overall by Preferred Positions 0.1

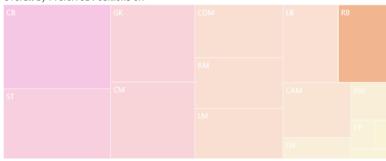


Overall	Preferred Positions	^
86	CAM CDM CM	
86	CAM LW	
86	CAM CM	
84	CAM LW	
84	CAM LM	~
	86 86 86 86	Overall Preferred Positions 86 CAM CDM CM 86 CAM LW 86 CAM CM 84 CAM LW 84 CAM LW



Name	Overall •	Preferred Positions
Neymar	92	LW
E. Hazard	90	LW
A. Griezmann	88	LW RW ST
F. Ribéry	86	LW LM
M. Reus	86	LW ST LM





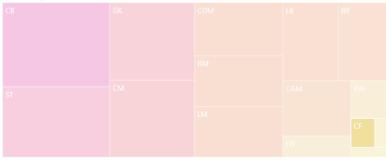
Name	Overall	Preferred Positions	^
Carvajal	84	RB	
Dani Alves	84	RB	
A. Valencia	83	RB	
Juanfran	83	RB	
A. RÃ1⁄4diger	82	RB CB	~

Overall by Preferred Positions 0.1

Overall by Preferred Posi	tions U. I		
СВ			

Name	Overall	Preferred Positions
L. Messi	93	RW
G. Bale	89	RW
A. Robben	88	RW RM
M. Özil	88	RW CAM
lago Aspas	83	RW ST

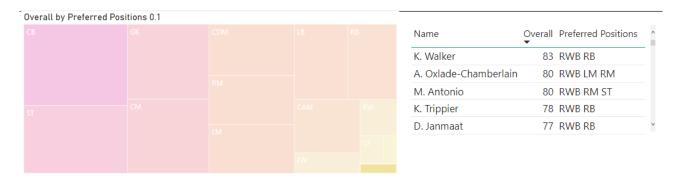
Overall by Preferred Positions 0.1



Name	Overall	Preferred Positions	^
Borja Valero	83	CF CM CAM	
Jonas	83	CF ST	
S. Kagawa	83	CF CAM	
F. Vázquez	82	CF CM CAM	
D. Perotti	81	CF LW	v

Overall by Preferred Positions 0.1

Name	Overall	Preferred Positions	^
D. Rose	82	LWB LB	
B. Davies	78	LWB CB LB	
B. Mendy	78	LWB LB	
J. Holebas	78	LWB LB	
A. Cresswell	76	LWB LB	~



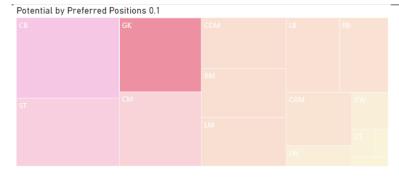
Top 5 players for every preferred position in terms of potential



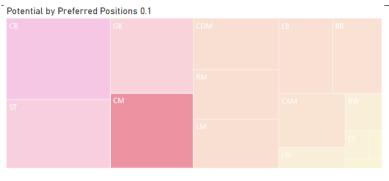
Name	Potential -	Preferred Positions
R. Varane	92	СВ
Sergio Ramos	90	СВ
A. Laporte	89	CB
E. Bailly	89	CB
G. Chiellini	89	СВ



Potential •	Preferred Positions
94	ST LW
94	ST
93	ST CAM
92	ST
92	ST
	94 94 93 92

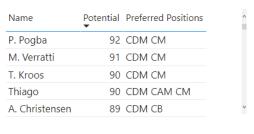


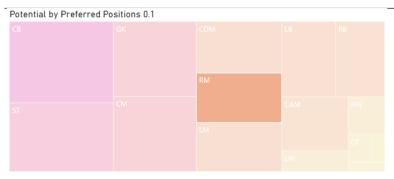
Name	Potential •	Preferred Positions	^
G. Donnarumma	94	GK	
J. Oblak	93	GK	
De Gea	92	GK	
M. Neuer	92	GK	
T. Courtois	92	GK	~



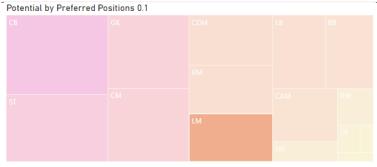
Name	Potential 🔻	Preferred Positions
A. Gomes	90	CM RW LW CAM
E. Barco	90	CM LM
N. Kanté	90	CM CDM
D. Alaba	88	CM CB LB
T. Bakayoko	88	CM CDM







K. De Bruyne 92 RM CM CAM Bernardo Silva 91 RM Saúl 90 RM CM Y. Carrasco 90 RM LM	Name	Potential •	Preferred Positions
Saðl 90 RM CM	K. De Bruyne	92	RM CM CAM
50 1011 011	Bernardo Silva	91	RM
Y. Carrasco 90 RM LM	Saúl	90	RM CM
	Y. Carrasco	90	RM LM
A. Sánchez 89 RM LW ST LM	A. Sánchez	89	RM LW ST LM



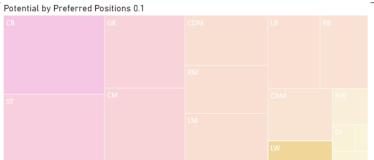
Name	Potential Preferred Positions
C. Eriksen	91 LM RM CAM
L. Sané	91 LM RW LW
T. Lemar	91 LM
D. Alli	90 LM CF CAM
Isco	90 LM RM CAM CM

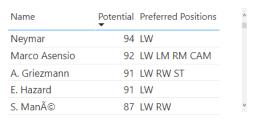
Potential by Preferred Positions 0.1						

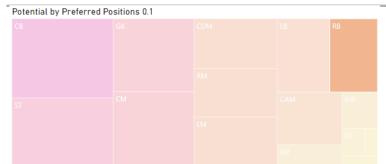
Name	Potential	Preferred Positions
L. Hernández	88	LB CB
M. Sarr	88	LB CB
Azpilicueta	87	LB RB CB
Grimaldo	87	LB
Marcelo	87	LB

Potential by Preferred Positions 0.1						
			CAM	RW		
				CF		

Name	Potential	Preferred Positions	^
O. DembéIé	92	CAM LW RW	
Y. Tielemans	90	CAM CM	
Coutinho	89	CAM LW	
André Gomes	88	CAM LW CM	
Dani Ceballos	88	CAM CDM LM CM	~

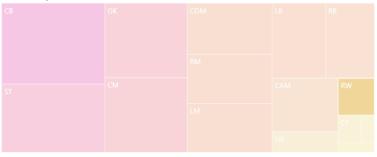






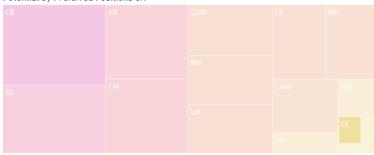
Name	Potential	Preferred Positions	
Héctor BellerÃn	88	RB	
T. Fosu-Mensah	88	RB CB	
Carvajal	87	RB	
NéIson Semedo	87	RB	
A. RÃ1⁄4diger	86	RB CB	

Potential by Preferred Positions 0.1



Name	Potential •	Preferred Positions	^
L. Messi	93	RW	
Deulofeu	89	RW LW	
G. Bale	89	RW	
A. Robben	88	RW RM	
B. Embolo	88	RW ST	~

Potential by Preferred Positions 0.1

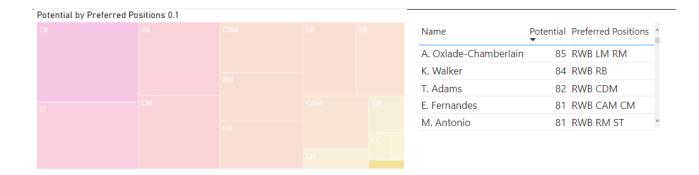


Name	Potential Preferred Positions
K. Havertz	88 CF CAM RM
F. Chiesa	87 CF RM
V. Thill	85 CF CAM
A. Zuev	83 CF LM
Borja Valero	83 CF CM CAM

Potential by Preferred Positions 0.1

Potential by Preferred Positions 0.1				

Name	Potential •	Preferred Positions
B. Mendy	86	LWB LB
M. Saracchi	85	LWB LB
MarÃn	84	LWB LB
D. Rose	83	LWB LB
A. Robertson	82	LWB LB



The following players were the best in 2018:

Name	Overall	Preferred Positions	^
Cristiano Ronaldo	94	ST LW	
L. Messi	93	RW	
L. Suárez	92	ST	
M. Neuer	92	GK	
Neymar	92	LW	
R. Lewandowski	91	ST	
De Gea	90	GK	
E. Hazard	90	LW	
G. HiguaÃn	90	ST	
Sergio Ramos	90	СВ	~

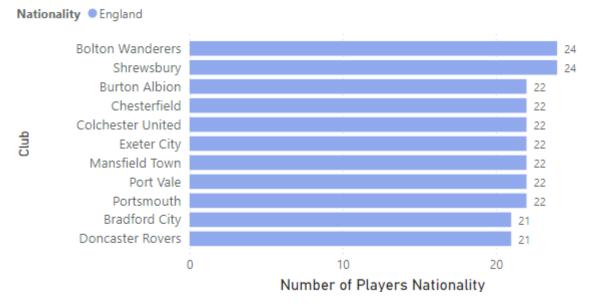
Following players were destined to be the future superstars in that year:

Name	Potential •	Preferred Positions
Cristiano Ronaldo	94	ST LW
G. Donnarumma	94	GK
K. Mbappé	94	ST
Neymar	94	LW
J. Oblak	93	GK
L. Messi	93	RW
P. Dybala	93	ST CAM
De Gea	92	GK
Gabriel Jesus	92	ST
K. De Bruyne	92	RM CM CAM

• Christiano Ronaldo, L. Messi, Neymar, De Gea are considered one of the best players in 2018 and they are also having a great chance to be the future superstars

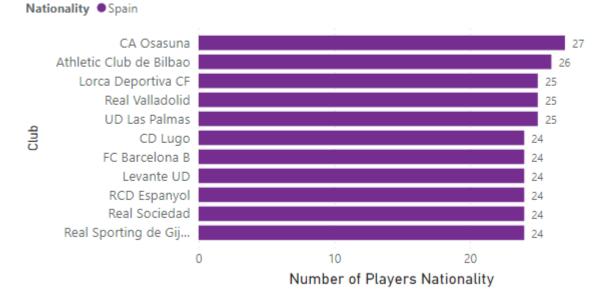
5. Which club(s) have the maximum share of players from England? Which club(s) have the maximum share of players from Spain? Which club(s) have the maximum share of players from Germany?

Number of Players Nationality by Club and Nationality



The above plot shows the clubs in which most shares of the players are from England. The
clubs such as Bolton Wanderers, Shrewsbury contains maximum share of players from
England. These are followed by Burton Albions, Chesterfield, Mansfield and Portsmouth
club.

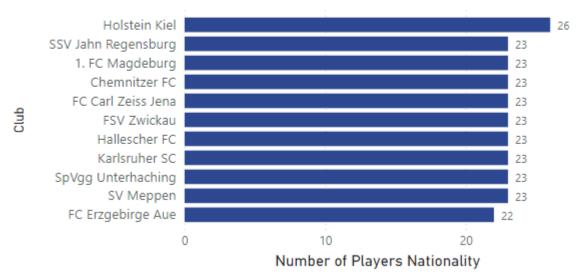
Number of Players Nationality by Club and Nationality



• The above plot shows the clubs in which most shares of the players are from Spain. The club CA Osasuna contains maximum share of players from Spain. These are followed by Athletic Club de Bilbao and Lorca Deportivo CF club.

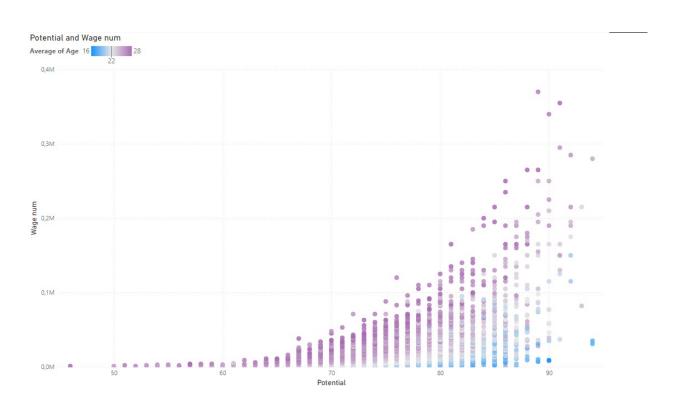
Number of Players Nationality by Club and Nationality



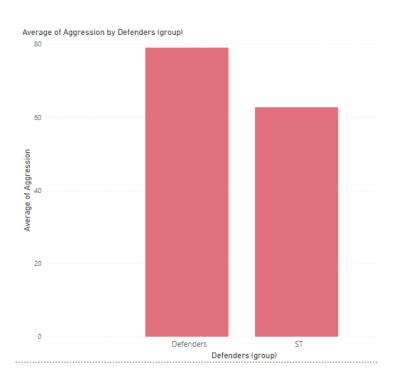


 The above plot shows the clubs in which most shares of the players are from Germany. The club Holstein Kiel contains maximum share of players from Germany. These are followed by SSV Jahn Regensburg club and FC Magdeburg club.

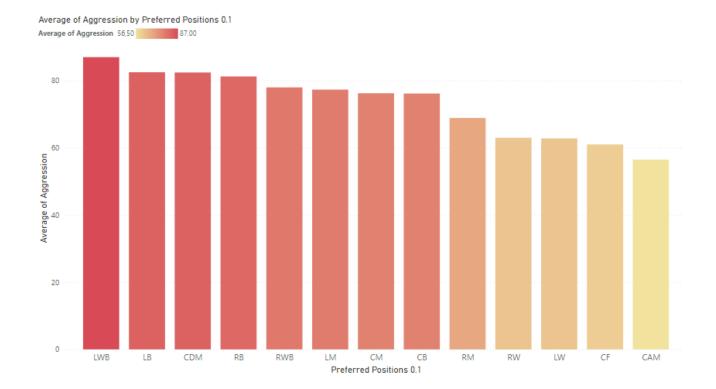
6. Are the wages of a player influenced by the potential of a player? Check it out for players with age Between 16 to 28?



- The general pattern reveals that more the potential a player has, he is likely to have higher the wage.
- We have used a scatter plot and line plot to come to the conclusion. The presence of outliers
 or exceptions has caused the Average Wage Vs Potential line graph to have a sudden dip
 towards the end, otherwise, an exponentially increasing trend can be observed.
- 7. Do Strikers score higher on "Aggression" than defenders do? Group both the set of players (from an overall score of 80 to 85) and compare their average aggression levels. Which particular position has the highest aggression as a given (players with an overall score of 80 to 90)?

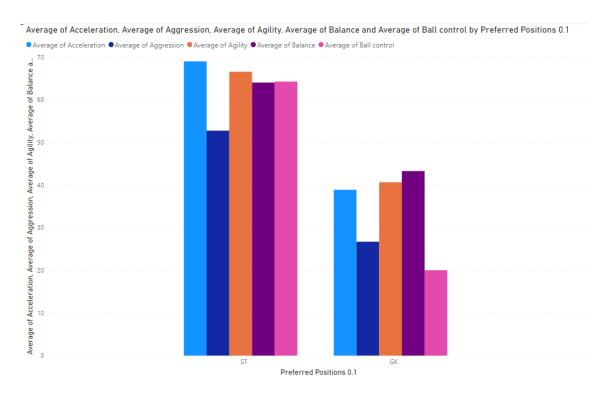


• It can be observed from the bar graph that the average aggression score of Strikers (ST) is much lower than that of the Defenders (CB, LB, RB, RWB, LWB) for the players with an overall score in the 80-85 bracket



• Players with an overall of 80-90 and in the LWB (Left Wing Back) position rank the highest in terms of average aggression score

8. How based on the positional data, players are profiled for different roles/classes. Plot Aggression, Acceleration, Agility, Balance and Ball Control for strikers and Goal Keepers in a single line/Bar plot to understand the positional difference



- Based on the positional data, the players are profiled for different roles/classes. The
 Aggression, Acceleration, Agility, Balance and Ball Control are plotted for strikers and Goal
 Keepers in a single Bar plot to understand the positional difference
- It can be inferred with the help of the visualization above that the average score of Goalkeepers in terms of Aggression, Acceleration, Agility, Balance and Ball Control is lesser than that of the Strikers.
- The most contrasting difference can be observed for the average score of ball control for Strikers and Goalkeepers.

9. Which clubs consists of the best future players? Consider only the players with Overall < 86 and Potential >=86, plot a graph to show which are the top 10 clubs with most number of best future player



- By considering only the players with Overall <85 and Potential >=86, the plot above shows the top 10 clubs with the greatest number of best future players
- We can see from the graph and the table present on this page that FC Barcelona has the
 maximum number of best future players followed by Atlético Madrid. Borussia Dortmund,
 Machester City, Milan, Paris Saint-German and Real Madrid CF all lie in the third position
 with an equal number of best future players.