

# Premier League

## Season 22/23 Report

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### Executive summary

We exported the Premier League data from the PL website for season 22/23 and are analyzing it to gain insights into our data based on a certain scope.

### Scope

- Player Information Analysis
- Player Performance Analysis
- Teams Analysis
- Salary Analysis

## Data Specs

Here are the tables we used to conduct our analysis

- Player Info
- Player Stat
- Teams
- Salary

## The Analysis

### Player Information Analysis

We Use the "Player Info" data to answer the following questions:

1. Which nationalities are most common among the players?

England is common nationality among the players	
Players nationalities	Count of Nationali
England	141
Brazil	32
France	26
Spain	26
Portugal	21

2. What is the average height and age of players by nationality?

it is sort by highest for Age average		
Nationality	Average of Height	Average of Age
Northern Ireland	188.0	35.0
Mexico	190.0	32.0
Gabon	185.0	31.5
New Zealand	191.0	31.0
Egypt	175.0	31.0
Serbia	187.5	30.0
Croatia	185.0	29.7

3. What is the height distribution among players of different positions?

average of height distribution on different positions			
Postions	Average of Height		
DF	184.45		
FW	180.23		
GK	191.07		
MF	179.75		

## Player Performance Analysis

1. Which players scored the highest number of goals? How many of those goals were penalties?

Erling Haaland scored the highest number of goals with 7 penalties			
players	Goals	Penalties_Scored_	
Erling Haaland	36	7	
Harry Kane	30	5	
Ivan Toney	20	6	
Mohamed Salah	19	2	
Callum Wilson	18	3	
Marcus Rashford	17	0	
Gabriel Martinelli	15	0	
Ollie Watkins	15	1	
Martin Ødegaard	15	0	
Bukayo Saka	14	2	
Aleksandar Mitrovic	14	4	

2. What are the top players in terms of assists, passes, and shots on target?

Kevin De Bruyne is most assists		Lewis Dunk is top passes		Harry Kane is most shot on target	
Players	Sum of Assists	Players	Sum of Passes	Players	Sum of Shots_on_Target
Kevin De Bruyne	16	Lewis Dunk	3208	Harry Kane	63
Mohamed Salah	12	Rodri	2977	Erling Haaland	60
Leandro Trossard	12	Virgil van Dijk	2581	Marcus Rashford	50
Michael Olise	11	Gabriel Magalhães	2396	Mohamed Salah	47
Riyad Mahrez	10	Trent Alexander-Arnold	2309	Ollie Watkins	47

### 3. Which players had the highest number of interceptions, and blocks?

Declan Rice has highest number of interception		James Tarkowski has highest number of blocks	
Players	Sum of Interceptions	Players	Sum of Blocks
Declan Rice	63	James Tarkowski	78
Moisés Caicedo	56	Ben Mee	42
Idrissa Gueye	56	Maximilian Kilman	42
Cheick Doucouré	56	Wout Faes	37
James Ward-Prowse	55	Ethan Pinnock	31

4. Analyze player performance by position. Are certain positions associated with higher averages in goals, assists, or interceptions?

Yes FW are highest average of goals and assists while in passes DF and MF has highest avg of passes and interceptions so positions make difference in player stat and performance					
Positions	Average of Goals	Average of Assists	Average of Passes	Average of Interceptions	
DF	0.6	0.8	936.8	21.2	
FW	4.8	2.2	370.0	5.4	
GK	0.0	0.1	661.4	0.6	
MF	2.4	2.1	776.9	16.4	

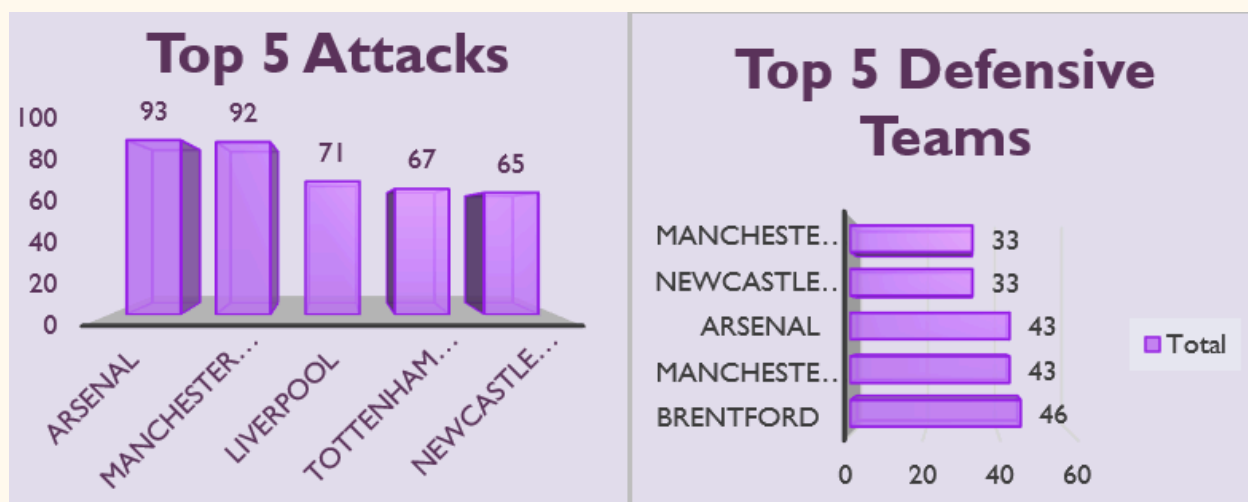
## Team Analysis

1. Identify the age range of players and analyze the distribution across different clubs or leagues.

age range in the league are from (18-38) and avg of ages in across clubs sorted by youngest average age

Max of Age	Min of Age	Clubs	Average of Age
38	18	Chelsea	25.2
		Arsenal	25.3
		Southampton	25.4
		Brighton & Hove Albion	25.5
		Leeds United	25.8
		Brentford	26.2
		Bournemouth	26.4

2. Investigate club performance by aggregating player stats per club (e.g., total goals, assists). Which clubs have the strongest statistics?



## Salary Analysis

1. What is the average salary per player? How does it vary by nationality or position?

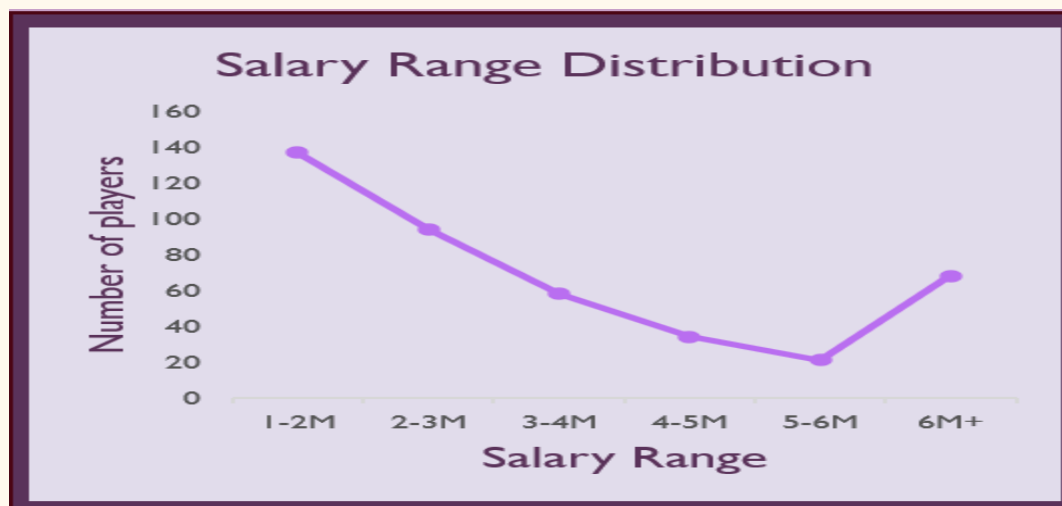
it's vary by postion which we realize that FW has highest salary while GK has lowest but we can't calculate accurate by nationality because it depends on numbers of player with this nationality

Position	Average of Salary	Nationality	Count of Playe	Average of Salary															
DF	\$3,848,776	Egypt	1	\$18,200,000															
FW	\$4,584,161	Switzerland	1	\$9,360,000															
GK	\$3,034,822	Croatia	1	\$9,270,000															
MF	\$4,037,602	Norway	3	\$8,253,333															

2. Identify the highest and lowest-paid players. What are their roles and clubs?

Highest paid player	Sum of Salary
Kevin De Bruyne	
MF	
Manchester City	20800000
Grand Total	\$20,800,000
Lowest paid player	Sum of Salary
Steven Alzate	
(blank)	
(blank)	\$780,000
Grand Total	\$780,000

3. Analyze salary distribution by creating salary ranges (e.g., 1-2M, 2-3M). How many players fall into each range?



4. Does salary have a noticeable correlation with player performance metrics such as goals or assists?

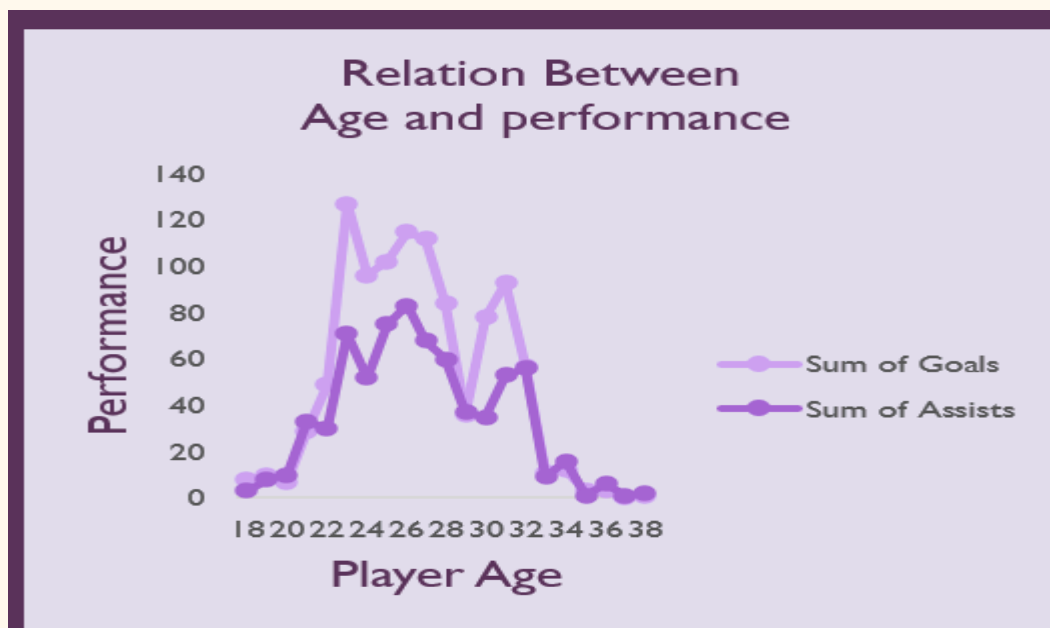
Players	Sum of Salary	Sum of Goal	Sum of Assists
Erling Haaland	\$19,500,000	36	8
Harry Kane	\$10,400,000	30	3
Ivan Toney	\$1,092,000	20	4
Mohamed Salah	\$18,200,000	19	12
Callum Wilson	\$2,400,000	18	5
Marcus Rashford	\$10,400,000	17	5
Gabriel Martinelli	\$4,680,000	15	5
Ollie Watkins	\$3,900,000	15	6
Martin Ødegaard	\$4,110,000	15	7
Aleksandar Mitrovic	\$3,120,000	14	1

5. Explore which clubs have the highest average player salary and how salary expenses are distributed across clubs

Clubs	Sum of Salary
Manchester City	\$126,620,000
Chelsea	\$117,975,000
Arsenal	\$89,928,667
Liverpool	\$78,539,333
Aston Villa	\$57,560,000

By combining information from all datasets, We analyze the following:

1. The correlation between player age and performance metrics such as goals or assists



We realize from the graph that age has a relation with player performance  
In the age range (23-31) there is a peak of players



## Premier League Dashboard

