

PERFORMANCE ANALYSIS OF ENGLISH PREMIER LEAGUE CLUBS

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Introduction

Premier League was launched in 1992 and it is the most popular league in the world. Every year 20 clubs participate, and each team plays at home and away so that each team plays their opponent twice. Team who finishes in top 4 positions, are qualified for Champions league. And, team who finishes in bottom 3 positions are relegated to the second division.

This report contains analysis of these teams Manchester United, Manchester City, Chelsea, Arsenal and Liverpool as the premier league is dominated by them.

Dataset

The dataset is taken from Kaggle which contains data of 12 seasons i.e. from 2006/07 to 2017/2018.

Link: <https://www.kaggle.com/zaemnalla/premier-league>.

Premier League Titles

For Last 12 seasons which have been analyzed, the Premier League is dominated by Manchester United, Chelsea and Manchester City.

Manchester United have won premier league title in year 2007, 2008, 2009, 2011 and 2013. Manchester City have won in 2012, 2014 and 2018. Also, Chelsea have won the titles in 2010, 2015 and 2017.

In year 2017/2018 Manchester City had the biggest title winning margin with 19 points clear with other teams[1].

Wins Year wise

In year 2018 Manchester City had the 32 wins which the most wins in a single season.

And, Derby County had just 1 win in entire season which is the fewest wins by any club.

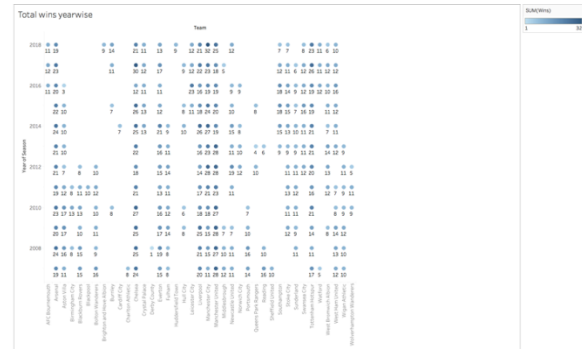


Figure 1.

Home wins in a season: Manchester City in 2012 and Manchester United in 2011 won 18 home wins in a season. Away wins in a season: Manchester City in 2018 won 16 wins in a single.

Overall Wins and losses

Analyzing over 12 seasons, Manchester United



Figure 2

have the most wins i.e 290 wins and 77 losses which is 79% winning and 20.98% losses, followed by Chelsea 276 wins and 79 losses which is 77.7% winning and 22.25% losses, Manchester City 256 wins and 107 losses which is 70.52% winning and 29.48% losses and Arsenal with 73% wins and 26.93% loss.

The clubs which performed poorly are Sunderland with 34% wins and 66% losses, Wigan Athletic with 35.65% wins and 63.35% losses and West Bromwich Albion with 37.65% wins and 62.35% losses.

The rise of Manchester City

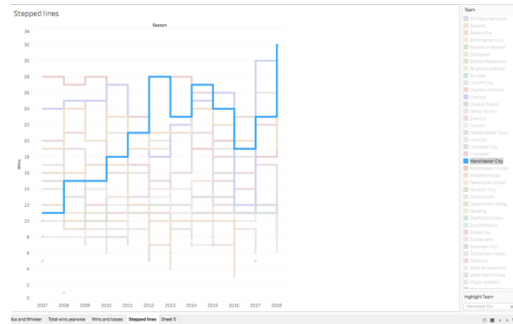


Figure 3.a

Manchester City took the league by storm in year 2018 by playing most attractive football and breaking records. It was the first team to reach 100 points. The club[1]. Over the past decade City is in leveling up with Chelsea and Manchester United on premier league titles.

The style of play has been changed over years, City has been playing attacking football from last few seasons. Robert Mancini was appointed as manager from year 2009 to 2013. By referring to figure 2.b on target attempts were getting improved. Ball passing over the years was improving. Total shots were high in year 2012 with 738 shots and 2013 with 660 shots taken overall the season.

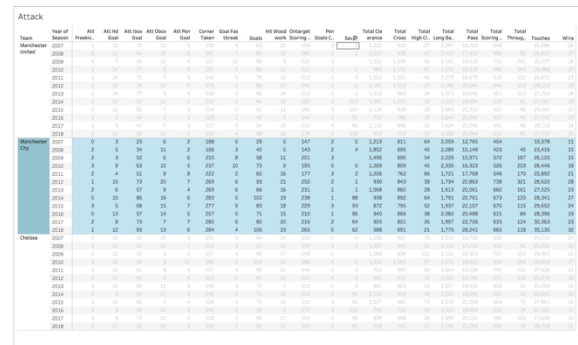


Figure 3.b

Looking at the span of 12 seasons it is clear that Manchester City after 2012 has been playing

well. They are in more playing in opponent's half, they are winning more corners. Statistics shows that they have won 283, 277, 257, 280 and 284 corners for years 2014, 2015, 2016, 2017 and 2018 respectively. Due to which they are scoring goals inside the box, goals scored inside the box are 73, 57, 86, 68, 57, 73, 93 and by taking headers which are 10, 6, 10, 5, 13, 8, 12 for years 2012 to 2018 respectively.

The shots are more on target as compare to pre-2012 years. It is been gradually increasing, the figures were 147,143 and 201 for 2007,2008 and 2009 respectively. Now it has been improved tremendously.

The current manager Pep Guardiola is determined to play attacking football. He is blended his Barcelona passing philosophy, for which he has gained good results.

They are passing the ball like never before. In year 2018 they passed the ball 28,241 times and had most touches 35,130. This is the good sign for coming years to come.

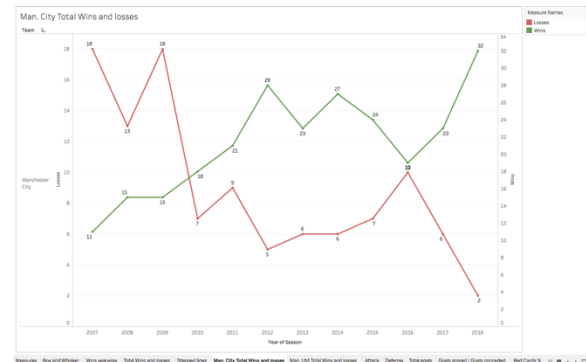


Figure 3.c

Figure 3.c shows the total wins vs total losses over a span of 12 seasons. Man. City has been improving consistently over the years, from 2012 there is no way looking back. From the year 2008 they started with 18 losses and 11 wins to 2 losses and 32 wins in a single season. It is an incredible achievement for a club to have this kind of achievements within a short duration of time.

Manchester United's decline

As seen in the figure 4.a Manchester were doing great, they managed win 5 premier league titles from the year 2007 to 2013, till the Alex Ferguson was the in charge of the club. As soon as he retired, the Red devils have been lost and directionless.

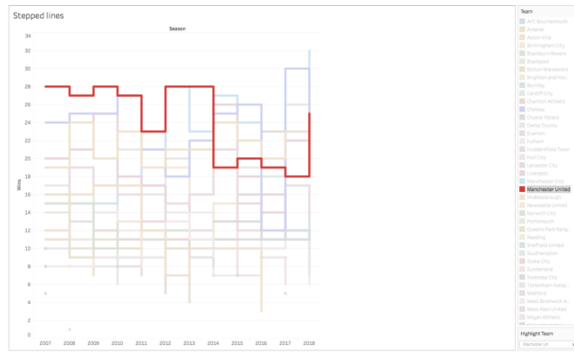


Figure 4.a

Post Ferguson era, in 2014 there was a sudden drop in the performance they finished 7th position with 19 wins, 4th position in 2015 with 20 wins and 5th & 6th position in year 2016 and 2017 with 19 & 18 wins respectively.

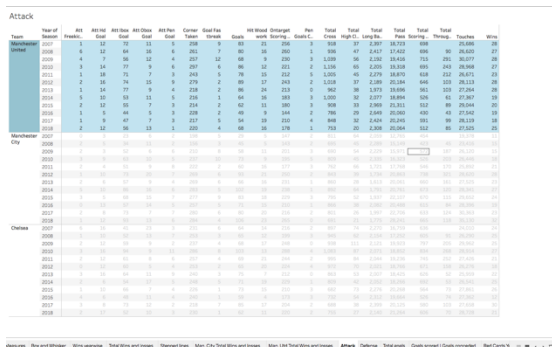


Figure 4.b

The figure 4.b shows attacking statistics of Manchester United. Post 2013 it can be seen that the goals scored has been dropped. From 2014 to 2017 goals scored were 61, 62, 49, 54 and 68 as compared to 89 and 86 in the year 2012 and 2013.

Also, shots taken on target had declined tremendously. In years 2014 to 2018, average shots on target was in 180. And, through balls dropped. From year 2014 to 2018, through balls were 61, 89, 43, 99 and 85 as compared to from year 2009 to 2013, through balls were 219, 243, 212, 103 and 103. Because there was a drop in through balls there was

drop in goals scored in the box as well. Average goals scored for years 2014 to 2018 in the box was in 50 as compared to 70 from year 2007 to 2013.

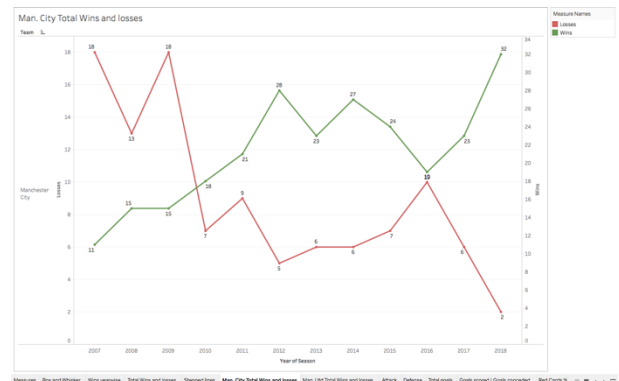


Figure 4.c

From the figure 4.c the losses have been increased, the most losses in a single was 12 in the year 2014. And, winning matches have been dropped post 2013 [3].

Goals

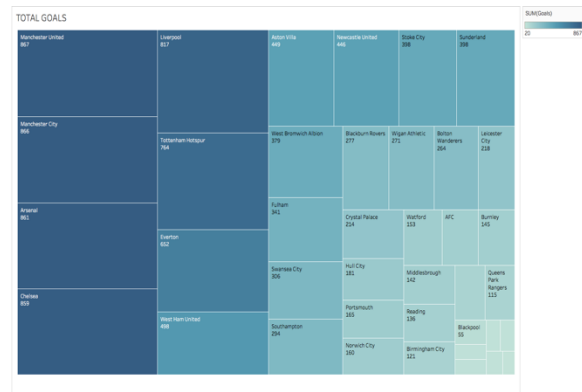


Figure 5.a

As seen in the figure 5.a shows the tree map of the goals. Manchester United scored 867 goals followed by Manchester City with 866 goals, Arsenal with 861 goals and Chelsea 859 goals. Chelsea in 2010 scored 68 goals at home, most by any club and Liverpool scored 48 away goals in year 2014 most by any club.

In 2007, Manchester City just scored 10 goals at home. Sheffield United and Derby County share the record of fewest premier league away goals

scored, they were able to score just 8 goals in the years 2007 and 2008 respectively.

Goals conceded Facts: From goals scored and goals conceded tableau sheet we can see goals that have been conceded by teams. In year 2008 Derby conceded 43 goals at home and this record has been shared with Wolverhampton Wanderers in year 2012. In 2010, Wigan Athletic conceded 55 away goals.

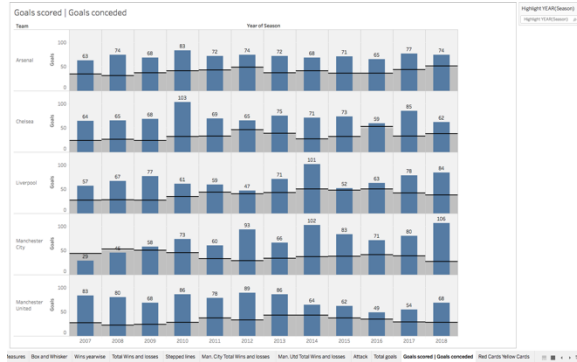


Figure 5.b

Figure 5.b shows goals scored, and goals conceded by big guns.



Figure 5.c

To have a look in detail, whether these big teams were able to score with big teams? Figure 5.c shows home and away goals scored by the big teams with results.

Draws Facts: In 2017, Chelsea had just 3 draws in a single season. In 2016, Manchester United had 10 draws which is most at home in a single season.

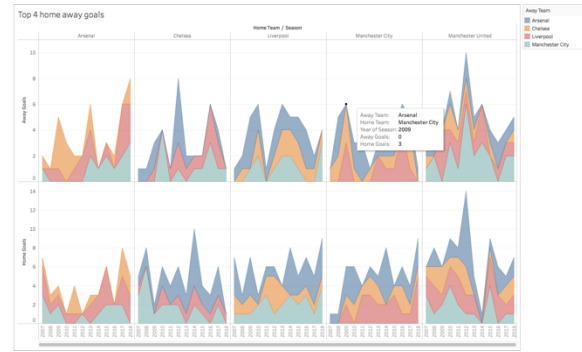


Figure 5.d

The figure shows area chart of 5 team scoring at home and away with each other.

Discipline

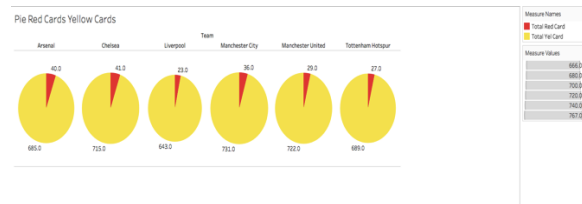


Figure 6

Figure 6 shows discipline of the clubs. It shows red cards and yellow cards of the club. Liverpool have 23 red cards over a span of 12 seasons and 643 yellow cards. They have been disciplined and looking at their progress in recent seasons they are team to watch.

Champions League qualification and Relegation

Figure 6 shows box and whiskers plots over a span of 12 years.

Top 4 teams are qualified for the champions league and bottom 3 are relegated to second division.

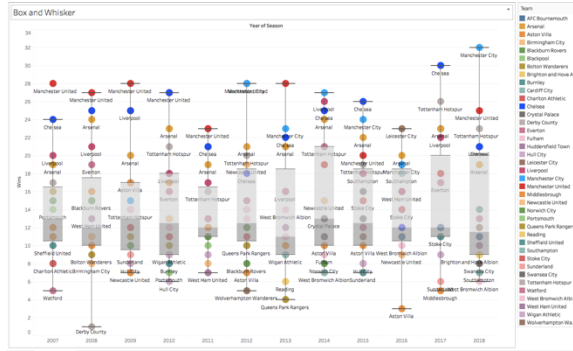


Figure 7

By looking at the figure top 4 positions are always taken by teams Man. Utd, Man. City, Arsenal, Chelsea, Liverpool and Tottenham.

Conclusion

To conclude, the tables have been turned. Manchester City have been rising, getting better every season. Last decade has been really good for Manchester City, winning 3 premier league titles in last 7 years. And, Manchester United's performance have been declined. Last 5 years of united have been really tough. Change of managerial roles and no fixed style of play have hampered the club reputation. Post 2013 Alex Ferguson Era the club has not tasted premier league title yet.

Referencing

[1]"Blue moon rising: The remarkable rise of Manchester City from 2008 to 2012", Sportskeeda.com, 2019. [Online]. Available: <https://www.sportskeeda.com/football/the-rise-of-manchester-city-2008-2012>. [Accessed: 23- Feb- 2019].

[2]"Premier League Football News, Fixtures, Scores & Results", Premierleague.com, 2019. [Online]. Available: <https://www.premierleague.com>. [Accessed: 23- Feb- 2019].

[3]D. Fraser, "Man United's decade of decay revealed, with Man City the noisy neighbours who've rapidly taken over", The Sun, 2019. [Online]. Available: <https://www.thesun.co.uk/sport/football/6356644/man-united-decline-city-rise/#>. [Accessed: 23- Feb- 2019].

Appendix

Index	Figure No and why it is used.	Chart Description	Tool Used
1	Figure 1. For analyzing wins for 20 teams over 12 years circle views were more suitable.	Circle Views	Tableau
2	Figure 2. This stacked bar shows total wins and losses of the teams. To create fixed stacked bar and splitting, was easy in power as compare to tableau	Stacked Bar	Power Bi
3	Figure 3.a Stepped lines were used to show the progress of the clubs over a span 12 years. This graph shows how Manchester City climbed positions in the tables	Stepped Lines	Tableau
4	Figure 3.b This is text table has attacking statistics of Manchester City. Text tables was used because it had many attribute and values and it is easy to visualize.	Text Tables	Tableau
5	Figure 3.c This dual chart contains wins vs losses. Dual Chart line was used because, it gave the progress of wins and losses over the period of 12 years.	Dual Line Chart	Tableau
6	Figure 4.a Stepped lines were used to show the progress of the clubs over a span 12 years.	Stepped Lines	Tableau

	This graph shows how Manchester United rankings fell in the tables		
7	Figure 4.b This is text table has attacking statistics of Manchester Utd. Text tables was used because it had many attribute and values and it is easy to visualize.	Text Tables	Tableau
8	Figure 4.c This dual chart contains wins vs losses. Dual Chart line was used because, it gave the progress of wins and losses over the period of 12 years.	Dual Line Chart	Tableau
9	Figure 5.a Tree Map was used to show which clubs have the highest number of goals. It was used to display goals with highest goals has largest size of the area so that we can interpret its contribution to the total goals.	Tree Map	Tableau
10	Figure 5.b It used for goals score and goals conceded by the teams. It was used so that we can compare the ratio at the same time.	Bullet Graph	Tableau
11	Figure 5.c The text tables contain Home goals and Away Goals with Result whether it is Win, Lose or Draw. To have 3 results over 12 seasons have 20 teams text tables is easy to visualize.	Text Tables	Tableau
12	Figure 5.d	Area Chart	Tableau

	Area chart was used to compare goals score by big 5 teams with each other. Area chart was used because it was easy to check area occupied by the chart.		
13	Figure 6. Pie chart was used because it is easy to compare 2 values. Red cards and yellow cards	Pie Chart	Tableau
14	Figure 7 Box and whiskers is used highlight top 4 teams that are qualified for champions league and bottom 3 teams which are relegated to second division.	Box and Whiskers	Tableau