

# PERFORMANCE ANALYSIS OF CHELSEA MANAGERS SINCE 2000

## BASIS

Over the years, in the Abramovich (the former owner of Chelsea FC) era, terminating managers contract seemed 'customary' at the club, so I decided to do a performance analysis of how these managers performed during their career spell.

## ABOUT DATA

The data used for this was sourced from [www.wikipedia.org](http://www.wikipedia.org). There were 2 different tables, which will be referred to as, The manager table and the title table. These data contained information such as Manager names and country, Matches played, Titles won and more.

## PROJECT STRATEGY

This project required some analytical processes; hence, I will briefly give details of the step-by-step process used in accomplishing my analysis.



## Data Collection

As stated earlier, the data used for this project was gotten from an external through Microsoft Excel. When searching I used the word "Chelsea's manager statistics" and I copied the Wikipedia link into the "Web Source" menu in MS Excel. The data loaded in the excel workbook consist of 2 tables that were holding relevant information for the analysis.

## Data Preparation

This is the one most important phase in analysis. The data loaded was untidy, so I had to go through Cleaning and transforming.

	Avram Grant		Israel	20 September 2007	24 May 2008	54	36	13	5	97	36	67% <sup>[10-11]</sup>	—	[2829]
	Luiz Felipe Scolari		Brazil	1 July 2008	9 February 2009	36	20	11	5	66	24	56% <sup>[10-12]</sup>	—	[2827]
	Guus Hiddink <sup>[10-2]</sup>		Netherlands	16 February 2009	30 May 2009	22	16	5	1	41	19	73%	see below	[28]
	Carlo Ancelotti		Italy	1 July 2009	22 May 2011	109	67	20	22	241	94	61% <sup>[10-13]</sup>	see below	[2829]
	André Villas-Boas		Portugal	22 June 2011	4 March 2012	40	19	11	10	69	43	48% <sup>[10-14]</sup>	—	[10331]
	Roberto Di Matteo		Italy	4 March 2012	21 November 2012	42	24	9	9	43	23	57% <sup>[10-15]</sup>	see below	[2]
	Rafael Benítez <sup>[10-3]</sup>		Spain	21 November 2012	27 May 2013	48	28	10	10	99	48	58%	see below	[2]

The managers table (Image source: wikipedia.org)

José Mourinho		Portugal	2004–2007 2013–2015	2005 Football League Cup 2005 Premier League 2005 FA Community Shield 2006 Premier League 2007 Football League Cup 2007 FA Cup 2015 Football League Cup 2015 Premier League
Guus Hiddink		Netherlands	2009 2015–2016	2009 FA Cup
Carlo Ancelotti		Italy	2009–2011	2009 FA Community Shield 2010 Premier League 2010 FA Cup
Roberto Di Matteo		Italy	2012	2012 FA Cup 2012 UEFA Champions League
Rafael Benítez		Spain	2012–2013	2013 UEFA Europa League
Antonio Conte		Italy	2016–2018	2017 Premier League 2018 FA Cup
Maurizio Sarri		Italy	2018–2019	2019 UEFA Europa League
Thomas Tuchel		Germany	2021–2022	2021 UEFA Champions League 2021 UEFA Super Cup 2021 FIFA Club World Cup

The title table (Image source: wikipedia.org)

As shown above, the data contained some columns that won't be healthy for analysis. I used Excel to clean and transform these data by Extracting the managers name from the column (using excel text function) which contained some characters that were not needed. I also created columns like the Goal-to-Game ratio, percentage Loss and percentage draw. Columns holding irrelevant data were removed.

In the title table, Data like nationality and years of tenure were removed, because they already existed in the other table. Also, the column holding the title name which included the year were separated using text functions like Left() and Mid().

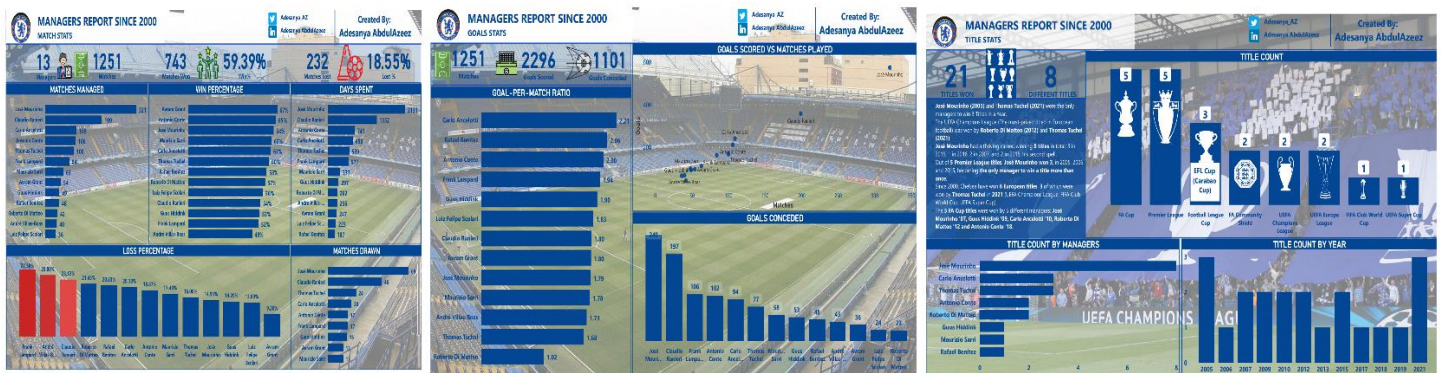
Lastly, all columns were set to their correct data type.

## Data Modeling

One key feature in data for analysis is 'Relationship' and these can be achieved through effective data modeling. This phase was done in Power BI. Here, I created a many-to-many relationship between the tables using the manager's name column as the 'Key'.

## Data Visualization

To provide comprehensiveness and readability of my analysis, I created a 3 Page report using Power BI. This report allows various individuals to explore the performance of managers at Chelsea FC using various metrics like Number of matches, Percentage win, Titles won and more. I made use of Paint 3D to create a plain image of the trophies used in the Title Stats and also Icons used for the card visuals were downloaded from [www.flaticon.com](http://www.flaticon.com).



## CHALLENGES FACED

Some managers like Jose Mourinho for example, who had more than one managerial spell at the club, had two entry rows of data. Visualizing data like Win% and Goal-To-Game ratio were showing the average of these entries rather than the correct data.

## APPROACH TO CHALLENGE

With the use of Data Analysis Expression (DAX), I was able to create new measures to calculate win Percentage, Loss percentage and the Goal-to-Game ratio.

Goal-per-Game Ratio =

`DIVIDE(SUM('Manager Match Stat'[Goal For]), SUM('Manager Match Stat'[Matches ]))`

*The DAX formular for G-T-G ratio (Image source: Microsoft power BI)*