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. 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 → DATA PREPARATION → DATA MODELING → DATA VISUALIZATION

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.

The managers table (Image source: wikipedia.org)

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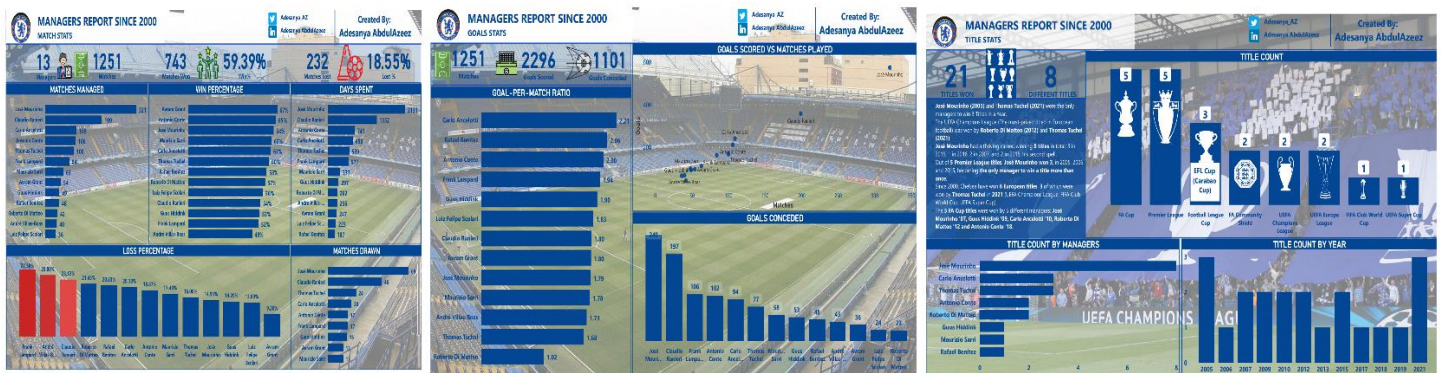
Lastly, all columns were set to their correct data type.

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.

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)