FIFA World Cup Data Analysis

**High Level Design**

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# Abstract

# With FIFA being in the blood as many people of the world. You are tasked to tell the story of unsung analysts who put great efforts to provide accurate data to answer every question of fans.

# The FIFA World Cup is a global football competition contested by the various football-playing nations of the world. It is contested every four years and is the most prestigious and important trophy in the sport of football.

# The World Cups dataset show all information about all the World Cups in the history, while the World Cup Matches dataset shows all the results from the matches contestedas part of the cups.

# Given Tasks

* **Task #1** - In a word document write the process and data added to the current dataset. In addition, mention the theme on which you will be creating the dashboard.
* **Task #2** - You can add your data as per your convenience.
* **Task #3** – Do the data preparation part.
* **Task #4** – Build the dashboards
* **Task #5** – Build a Storyline

# Scope

* My main theme is on Most Number of World cups won by the country throughout the FIFA history. I made three dashboards showing their visualizations. Dashboard shows the following data.
* Most no. of world cup winning team.
* Highest no. of runner up titles.
* Highest no. of third titles.
* Highest no. of fourth titles.
* Qualified teams as per year.
* Matches played as per year.
* Stadium with max no. of attendance.
* Matches with max no. of attendance.
* Total away team goals.
* Total home team goals.
* Matches outcome by home team and away team.
* My main theme is to create dashboards on Most world cup winning team with their highest number of wins and Runner up and make visualization the whole data.

# Problem Statement

# With FIFA being in the blood as many people of the world. You are tasked to tell the story of unsung analysts who put great efforts to provide accurate data to answer every question of fans.

# The FIFA World Cup is a global football competition contested by the various football-playing nations of the world. It is contested every four years and is the most prestigious and important trophy in the sport of football.

# The World Cups dataset show all information about all the World Cups in the history, while the World Cup Matches dataset shows all the results from the matches contested as part of the cups.

* **Task #1** - In a word document write the process and data added to the current dataset. In addition, mention the theme on which you will be creating the dashboard.
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# General Description

* My main theme is on Most Number of World cups won by the country throughout the FIFA history. I made three dashboards showing their visualizations. Dashboard shows the following data.
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# Tools Used

* I used python to analyze the data and to know the main attributes from the data and make visualization out of it.
* I have used Business Intelligence tools like MS Excel and Tableau for making analysis and visualization.
* MS Excel is used to make data proper and attractive view and adding some additional data into given data so that I can make visuals on it.
* Tableau is used to make graphs and charts according to selected data and make dashboards using the charts.

# Optimization

* I need not to do much of the optimization for the data as it was clean data divided in three parts, 1) Worldcup.csv 2) Worldcupplayers.csv 3) WorldcupMatches.csv
* Total matches and years are given in the data.
* Just because there are lot of matches and years n the data, I only kept top teams and top matches and also used filters using years.

# KPIs (Key Performance Indicators)

* Dashboards will be implemented to display and indicate certain KPIs and relevant indicators.
* As and when, the system starts to capture the historical/periodic data for a user, the dashboards will be included to display charts over time with progress on various indicators or factors.
* Key Indicators displaying Top World cup winners:
* Most no. of world cup winning team.
* Highest no. of runner up titles.
* Highest no. of third titles.
* Highest no. of fourth titles.
* Qualified teams as per year.
* Matches played as per year.
* Stadium with max no. of attendance.
* Matches with max no. of attendance.
* Total away team goals.
* Total home team goals.
* Matches outcome by home team and away team

# Deployment

* Any company or organization wants analyze data and visual data for better understating. For that, companies are already using the best business intelligence technologies for better data analysis and visualization and Tableau is one of them.
* Tableau has its various services. One can use tableau public for making good visuals because tableau public is free of cost, anyone can use it and it will deployed on its own tableau server, from there any one can see your work, dashboards etc. You can also share the sharable link for those who want to see your work.