## **Project One**

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| Project Title: | **Top 5 European Leagues Analysis Project** |

## **Team Members**

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| **Names:** |
| **Hany Sedarous** |

## **Project Week Timeline**

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| --- | --- |
| Date | Subject |
| 09/15/2020 | Project Intro, Collaboration with Git, & Project Work |
| 09/15/2020 | Pulling and Merging with Git & Project Work |
| 09/16/2020 | Hypothesis Testing and Statistical Tests & Project Work |
| 09/17/2020 | Project Work |
| W xx/xx | Project Presentations |

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## **Project Description**

As Soccer is the most viewed game all over the world, I wanted to compare between the most famous and strong 5 soccer leagues in Europe to get some answers of the usual frequently asked questions.

* In order to do so I used one of the most certified soccer statistics sources ([fbref.com](https://fbref.com/en/)).
* Once data extracted, we needed to consolidate it in two files for both players and teams.
* Phase three was about cleaning the data to get accurate figures.
* Then we started the analysis phase so we can get the required answers.
* With all answers ready, we started to present the whole project.
* Finally, all data pushed to Git.

Write this as a brief summary of your interests and intent, including:

* The kind of data you'd like to work with/field you're interested in (e.g., geodata, weather data, etc.)
* The kinds of questions you'll be asking of that data
* Possible source for such data

In other words, write down what kind of data you plan to work with, and what kinds of questions you'd like to ask of it. This constitutes your Project Proposal/Outline, and should look something like this:

Our project is to uncover patterns in criminal activity around Los Angeles. We'll examine relationships between types of crime and location; crime rates and times of day; trends in crime rates over the course of the year; and related questions, as the data admits.

Remember the **Analytics Paradigm**:

1. Decompose the Ask
2. Identify Data Sources
3. Define Strategy and Metrics
4. Build Data Retrieval Plan
5. Retrieve the Data
6. Assemble and Clean
7. Analyze for Trends
8. Acknowledge Limitations
9. Make the Call or Tell the Story

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| **Questions**:  What is the Best League in Europe?  Who is the best team in Europe?  Who are the League Champions in the top 5 European leagues?  Who are the Top 5 Strikers (2017 till 2020) in Europe?  What is the players Age categorization?  Who are the Top 10 toughest players with the greatest number of Red Cards? |

## **Data Sources**

|  |  |  |
| --- | --- | --- |
| # | Description | URL or Resource Link |
| 1 | Soccer Statistics FBRef | <https://fbref.com/en/> |
| 2 |  |  |
| 3 |  |  |

## **Rough Breakdown of Tasks**

|  |  |
| --- | --- |
| **Task** | **Completed?** |
| Extracting Data for top 5 European leagues | Yes |
| Creating 2 consolidated files | Yes |
| Cleaning data | Yes |
| Analyzing data | Yes |
| Finalizing charts | Yes |
| Final Presentation | Yes |

## **How will you be using Git?**

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| Git Commit # |
| [Project Starter](https://github.com/HanySedarous/Top-5-European-Leagues-Analysis-Project/commit/fdec3ed3a5fd2d8dd42f7441dd8d1c55dd9bb990)  [Data Structure](https://github.com/HanySedarous/Top-5-European-Leagues-Analysis-Project/commit/a44fb6241b9f348acaac845f556b46663228bc48)  [Creating CSV file (teams)](https://github.com/HanySedarous/Top-5-European-Leagues-Analysis-Project/commit/1b083b336607b01aaab1f053ba648b426171c79f)  [Update European-Leagues-Analysis-Teams.ipynb](https://github.com/HanySedarous/Top-5-European-Leagues-Analysis-Project/commit/8a6fe800b01b16c40eb5e1c9e1c00ee3e6a55e34)  [Analysis Phase](https://github.com/HanySedarous/Top-5-European-Leagues-Analysis-Project/commit/b46669c98392ca7fee78bf81468e0e4edc07cf49)  [Finalizing Analysis Phase](https://github.com/HanySedarous/Top-5-European-Leagues-Analysis-Project/commit/e78b65cf6d3269c376c9f0ac7337b3c56c983554) |

## **Repo Link**

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| Repo URL |
| <https://github.com/HanySedarous/Top-5-European-Leagues-Analysis-Project> |

## **Presentation**