Take home exercise 1. Sports team product, concept to data visualisations

## Tips

* Read through all the requirements before starting, so you don’t spend too much time on the earlier requirements.
* Rather than asking for clarification, please make assumptions and document them with your solution.
* As a guide, keep the solution simple enough that if you had experience in these technologies, the solution would be doable in 1 to 4 hours.
* We are not looking for the perfect/best solution, rather we are interested in how you approach the problem and deal with vague requirements and potentially work with new technologies. This is only one part of the recruitment process, and is to assess baseline technical experience and capability, not technical excellence.

## Requirements

1. Suppose you want to build a product for managing a sports team. You are interested in recording game day results and training sessions. What domain model might you create to store the information? Please keep this relatively simple and justify your decisions.
2. Using the domain model you’ve designed, create a few excel/google-sheets to store sample information (just 2 or 3 records is enough).
3. Download the information as CSV and store it in Google Storage or AWS S3.
4. In python, write a GCP cloud function, or an AWS Lambda function that will
   1. Read the CSV out of storage/S3
   2. Add an additional column with the current timestamp called ‘extracted\_at’
   3. Load the data into the data warehouse (Google BigQuery or AWS Redshift)
5. Create a Google Data Studio or Power BI dashboard to connect to the data warehouse and display the information in appropriate visualisations.

## Solution

* Please make all work (source code and artifacts) available in a public GIT repository of your choice and email the repository URL to [jon.gebhardt@justice.nsw.gov.au](mailto:jon.gebhardt@justice.nsw.gov.au).
* After a short review, we will organise to meet with you to discuss your solution.
* Good luck!