Group 1 - Nay Newman, Abigail Aning, Adetomiwa Adeyemo, Tricia Edokpolor and Jeanne Barbara Debre

This week's homework will be purely Project based.

You need to work as a group and the homework will be submitted by one of the members of your group.

List the other members of your group in the document, so that your instructor can mark every student.

Summer Olympics Women's Events Track Events

2012 London
2016 Rio
2020 Tokyo

Find Data Sources

Olympic history data: thorough analysis | Kaggle

Track times and numbers for maths
https://www.kaggle.com/datasets/jayrav13/olympic-track-field-results

Packages:
Pandas
MatplotLib
Requests

1. **Your group needs to decide what kind of project you are going to work on and lock in your decision.**
   quantitative analysis
2. **You need to submit a free style paper that describes your project on a high level. Please cover the following questions:**

   1. What kind of data research and analysis are you going to take on?

   Statistical analysis

   2. What industry or areas does it cover?

   Sport
   Politics

   3. What Questions/Hypotheses are you planning to answer?

   - How much faster does a gold medallist run compared to a silver/bronze/non-medallist?
   - Has the same country been winning the same events? – sub Q - team composition
     - Sub Q- does this winning country (of an event) also do well in similar events

- Most successful athletes – link to countries.
- Link between hosting country and number of winning medals

- Over the Olympics we are looking at (3), how has the variety and quantity of events changed. – for this go back 20 years.
- Do winners of summer events also do well in similar winter events.

3. **What data sources are you planning to use?**

API
Olympics API – many to choose from
Olympic API
unofficial Tokyo 2020 Olympics API (olypi.com)

Kaggle
https://www.kaggle.com/datasets/jayrav13/olympic-track-field-results
https://www.kaggle.com/datasets/gauravanand31/olympics-athletes-events-dataset-of-120-years
https://www.kaggle.com/datasets/samruddhim/olympics-althlete-events-analysis
https://www.kaggle.com/datasets/arjunprasadsarkhel/2021-olympics-in-tokyo
https://www.kaggle.com/datasets/arjunprasadsarkhel/2022-winter-olympics-beijing
https://www.kaggle.com/datasets/divyansh22/summer-olympics-medals

4. **Describe the team approach to the project work: how are you planning to distribute the workload**

Divide it up by people's strengths and availability.

Name	Strengths
Abigail	SQL and Data Visualisation
Tomiwa	SQL, Python- Pandas, Data Visualisation
Jeanne	Research, SQL
Nay	Python, SQL
Tricia	Python- Pandas

5. **How are you managing your code**

Google Colab. Jupyter notebook.
Google Dox – progress of team members is kept.
Scrum techniques --- Trello

How are you planning to work on your project? – Holistic. Not tech based. E.g. one person in charge of n parts. Meetings when? How frequently?

Planned Meetings

Monday	Tuesday	Wednesday	Thursday	Saturday	Notes
Stand up	**Stand up**	**Stand up**	**Stand up**	**Sprint Review & Next Sprint Plan**	**Stand ups:** to update team on progress & hurdles.
6pm-6.30 pm	6pm-6.30 pm	6pm-6.30pm	6pm-6.30p m	2pm-?	**Sprint Review:** to assess success of previous week and & collaborate on challenges **Next Sprint Plan:** to distribute takes for forthcoming week. All write own methods.