

# Datasets:

This assignment uses the same datasets from past assignments (World Cup.csv and Titanic.csv)..

# Submission Instructions:

There are two parts to submit, a PDF of your notebook and its .ipynb file.

# Python

Complete the following problems.

## **WORLD CUP DATA ANALYSIS**

1 What player on a team with "ia" in the team name played less than 200 minutes and made more than 100 passes? Print the player surname.

2 Which team has the highest ratio of goalsFor to goalsAgainst? Print the team only.

3 How many players on a team with ranking <10 played more than 350 minutes?

## **TITANIC DATA ANALYSIS**

1 Write a loop that asks the user to enter an age, then returns the number of married women over that age who embarked in Cherbourg. Terminate the loop when the user enters a number that is less than 0.

## **WORLD CUP DATA VISUALIZATION**

1 Create a scatterplot of players showing passes made (y-axis) versus minutes played (x-axis). Color each player based on their position (goalkeeper, defender, midfielder, forward).

2 Create a pie chart showing the relative percentage of teams with 0, 1, and 2 red cards.

## **TITANIC DATA VISUALIZATION**

1 Create a bar chart showing the average fare paid by passengers in each class. The three bars should be labeled 'first', 'second', 'third'.

## **WORLD CUP WITH PANDAS**

1 What player on a team with "ia" in the team name played less than 200 minutes and made more than 100 passes? Print the player surname.

## **TITANIC WITH PANDAS**

1 List the average fare paid by passengers in each of the embarkation cities.