COMP 4304 / 6934 – Assignment 1 (3%)

MEMORIAL UNIVERSITY

Due: 11:59pm, Jan. 20, 2023

Learning Objectives

The goal of this assignment is to become acquainted with Python, Jupyter notebooks and the Pandas library.

Instructions

Download the data set, `starwars.csv`, from Brightspace.

This data set contains survey responses for a survey about Star Wars. 1,186 respondents were polled on which films they had seen, their views on certain characters, and other important questions such as, who shot first?

Using the provided data set, create a Jupyter notebook to answer the following questions using only the pandas library. That is, pandas should be the only library imported into your notebook to complete the assignment.

Question 1: (15 pts)

Write code that determines the number of unique values for age.

Question 2: (15 pts)

Write code that lists all the unique responses to the question, "Who shot first?" (who_shot_first field).

Question 3: (15 pts)

Write code to determine the number of entries in the data set that view Darth Vader as "Very favorably" or "Somewhat favorably".

Question 4: (20 pts)

Write code that computes the total number of people that have seen all 6 Star Wars films (hint: 471).

Question 5: (20 pts)

Write code that computes the percentage of males and females that are fans of Star Wars.

Question 6: (15 pts)

Turn your notebook into a document with text. Using Markdown, add an appropriate title to the top of the notebook, along with your name and date. Add appropriate sub-headings before your answers to each of the questions.

Submission

Submit your Jupyter notebook (`.ipynb`) through Brightspace.

Late submissions will be subject to a 10% penalty for each hour past the deadline.

Attribution

Submissions should include an attribution section indicating any sources of material, ideas or contribution of others to the submission.

Submissions must represent your independent work.

You are encouraged to use any resources to help with your solution, but your solution must represent independent work. If your submitted work includes unacknowledged collaboration, code materials, ideas or other elements that are not your original work, it may be considered plagiarism or some other form of cheating under MUN general regulations 6.12.4.2 (4.12.4.2 for graduate students) and academic penalties will be applied accordingly.

Avoid academic penalties by properly attributing any contribution to your submission by others, including internet sources and classmates. This will also help distinguish what elements of the submission are original. You may not receive full credit if your original elements are insufficient, but you can avoid penalties for plagiarism or copying if you acknowledge your sources.

Github

I encourage you to store and version your work on GitHub. It is good practice to do so as everyone uses git in the real world.

However, **it is a requirement that git repositories containing assignment material be private.** University regulations (undergraduate 6.12.4.2 and graduate 4.12.4.2) consider it cheating if you allow your work to be copied. There will be zero tolerance for this.