Project - Read Chess Tournament Cross Table

In this project, you're given a text file with chess tournament results where the information has some structure. Your job is to create a Jupyter Notebook that generates a .CSV file with the following information for all of the chess players:

Player's Name, Player's State, Total Number of Points, Player's Pre-Rating, and Average Pre Tournament Chess Rating of Opponents

For the first player, the information would be:

Gary Hua, ON, 6.0, 1794, 1605

1605 was calculated by using the pre-tournament opponents' ratings of 1436, 1563, 1600, 1610, 1649, 1663, 1716, and dividing by the total number of games played.

If you have questions about the meaning of the data or the results, first watch the provided video. If you still have questions, please post them on the discussion forum. Data science, like chess, is a game of back and forth...

The chess rating system (invented by a Minnesota statistician named Arpad Elo) has been used in many other contexts, including assessing relative strength of employment candidates by human resource departments.

You may substitute another text file (or set of text files, or data scraped from web pages) of similar or greater complexity, and create your own assignment and solution. You may work in a small team. All of your code should be in a Jupyter Notebook (and published to your GitHub repository); with your data accessible for the person running the script.

Excerpt from text file:

Pair Player Name Num USCF ID / Rtg (Pre->Post)								ound Ro	
1 GARY HUA ON 15445895 / R: 1794 ->1817		W		21 W W	18 W B	14 W	7 D B	12 D W	4
2 DAKSHESH DARURI MI 14598900 / R: 1553 ->1663		ΙB	W l	ΙB	W		W	ΙB	7
3 ADITYA BAJAJ MI 14959604 / R: 1384 ->1640	16.0	L				21 W W		13 W W	12
4 PATRICK H SCHILLING MI 12616049 / R: 1716 ->1744	•	W W	23 D B	28 W W	2 W B	26 D W	5 W B	19 D B	1
5 HANSHI ZUO MI 14601533 / R: 1655 ->1690	•	W B	45 W W	37 D B	12 D W	13 D B	4 W W	14 W B	17

Grading rubric: you'll receive (up to 70) points if you successfully write the player name and total points into a pandas DataFrame, then into the .CSV file. You'll receive (up to 90) points if you also successfully process the information from the second line for each player: state and pre-tournament rating. To get the full 100 points on the assignment, you will also need to successfully calculate and process the average pre-tournament rating for each player's opponents.