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Data Article

Statistical analysis of frequencies of opponents' eliminations in Royal Rumble wrestling matches, 1988–2018

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ABSTRACT

The datasets and their analyses presented in this paper revealed some frequencies of opponents' eliminations by entrance or order of elimination in Royal Rumble wrestling matches from 1988 to 2018. The frequency of eliminations by the order of entrant is quite different from order of eliminations. Statistical methods, algorithms and machine learning methods can be applied to the raw data to obtain more hidden trend not included in this article.

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Specifications Table

Subject area	Decision Sciences
More specific subject area	Sports science, Statistical data analysis
Type of data	Table and MS Excel
How data was acquired	The data was obtained from wwe.com and Wikipedia.com. About.com was helpful for the detailed dataset description.
Data format	Raw, partially analyzed
Experimental factors	Exploration of frequencies of opponents' elimination by entrance and order of eliminations
Experimental features	20-man, 30-man and 40-man royal rumble matches were included. Greatest Royal Rumble (2018) was not included. Researchers can decide to consider only 30-man royal rumble matches.
Data source location	WWE and Wikipedia webpages [1,2].
Data accessibility	All the data are in this data article

Value of the data

- The data could be helpful in prediction of winning, losing and elimination frequencies in royal rumble matches.
- The data analysis could be helpful in sports science.
- The analysis can be extended to capture the frequencies of eliminations along the brand line such as 'ECW', 'RAW', 'SmackDowm', 'NXT' and so on.
- The analysis can be done on the time spent by the wrestlers on elimination.
- Similar analysis can be done on other wrestling events such as 'Battle royal matches', 'Elimination Chamber', 'Women's royal rumble', 'Survivor Series' and so on.
- Advanced statistical tools can be employed to reveal hidden patterns of eliminations. Statistical hypothesis can be propounded. Such as the independence or otherwise of the entrant numbers to the order of eliminations and so on.
- Data mining tools can be used to explore the participants' rounds of survival as a function of their entrant numbers.

1. Data

The data is in this article was obtained from the aforementioned websites. The data describes the frequency of eliminations by different entrants (professional wrestlers) and frequency of eliminations from the winner down to the first wrestler to be eliminated into the royal rumble matches promoted by the World Wrestling Entertainment (WWE). The data of the order of eliminations by the entrant to the last entrant is quite different from order of eliminations from the winner to the first to be eliminated.

The raw data was arranged to explore the frequencies of opponents' eliminations by entrance or order of elimination in Royal Rumble wrestling matches from 1988 to 2018. The data are presented as follows:

a). The frequency of eliminations by different entrants presented in Table 1 and descriptive statistics in Table 2. The raw data can be assessed as Supplementary Data 1. b). The frequency of eliminations arranged in descending order from the winner down to the first person to be eliminated. This is shown in Table 3 and the descriptive statistics in Table 4. In addition the raw data can be assessed as Supplementary Data 2.

A careful examination and interpretation of Tables 1–4 could be of interest as different distinct frequencies can be obtained. For example, the top five entrant numbers with the highest number of eliminations are 1, 30, 19, 15 and 2. Moreover, charts can be drawn using the raw data.

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