Data Dictionary for Comparing baseball players across Eras via the Novel Full House Model

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Data Name	Description	Type	Sample
playerID	Baseball-Reference ID for baseball players	character	aardsda01
yearID	the Season that players played in	integer	2022
name	the First name and Last name of players	character	David Aardsma
age	the Age of the player in that season	integer	22
G	the number of Games that the player played in that season	integer	11
lgID	the League that the player played in	character	NL
teamID	the Team that the player played in	character	SFG
full_time	the variable indicates whether the player is a full-time player	character	Y
PA	the Plate Appearance that a batter achieves in that season	integer	0
IP	the Innings Pitched that a pitcher achieves in that season	numeric	10.2
AB	the At-Bat that a batter achieves in that season	integer	0
BB	the Walks or Walks allowed that a player achieves in that season	integer	0
obs_hits	the Hit that a batter achieves in that season before applying park-factor adjustment	integer	0
obs_H	the Hit allowed that a pitcher achieves in that season before applying park-factor adjustment	integer	0
obs_HR	the Home Run or Home Run allowed that a player achieves in that season before applying park-factor adjustment	integer	0
obs_ER	the Earned Run that a pitcher achieves in that season before applying park-factor adjustment	integer	0
HBP	the Hit-By-Pitch or Hit-By-Pitch allowed that the player achieves in that season	integer	0
SH	the Sacrifice Bunt that a batter achieves in that season	integer	0
SF	the Sacrifice Fly that a batter achieves in that season	integer	0
H	the Hit that a batter achieves in that season after applying park-factor adjustment	numeric	0
HR	the Home Run that a batter achieves in that season after applying park-factor adjustment	numeric	0
SO	the Strikeout that a pitcher achieves in that season	integer	5
ER	the Earned Run that a pitcher achieves in that season after applying park-factor adjustment	numeric	7.98
HR_PF	the Home Run allowed that a pitcher achieves in that season after applying park-factor adjustment	numeric	1.06
H_PF	the Hits that a pitcher achieves in that season after applying park-factor adjustment	numeric	19.75
bWAR	the Baseball-Reference Win Above Replacement that a player achieves in that season	numeric	0
fWAR	the Fangraphs Win Above Replacement that a player achieves in that season	numeric	0
pops	the MLB-eligible population in that season	integer	13160690
NL_pop	the National League MLB-eligible population in that season	integer	240569
AL_pop	the American League MLB-eligible population in that season	integer	240569
adj_BB	the Era-Adjusted Walks in that season that a batter achieves before applying smoothing and trimming	numeric	0
adj_AVG	the Era-Adjusted Batting Average in that season that a batter achieves before applying smoothing and trimming	numeric	0.188
adj_HR	the Era-Adjusted Home Run in that season that a batter achieves before applying smoothing and trimming	numeric	0
adj_AB	the Era-Adjusted At-Bat in that season that a batter achieves before applying smoothing and trimming	numeric	2
adj_bWAR	the Era-Adjusted bWAR in that season that a batter achieves before applying smoothing and trimming	numeric	-0.11
adj_fWAR	the Era-Adjusted fWAR in that season that a batter achieves before applying smoothing and trimming	numeric	-0.10
adj_OBP	the Era-Adjusted On-Base Percentage in that season that a batter achieves before applying smoothing and trimming	numeric	0.188
mapped_PA	the adjusted PA computed from common mapping environment using quantile mapping method	integer	2
mapped_G	the adjusted G computed from common mapping environment using quantile mapping method	integer	4
mapped_G_bWAR	the bWAR-adjusted G computed from common mapping environment using quantile mapping method	integer	4
mapped_G_fWAR	the fWAR-adjusted G computed from common mapping environment using quantile mapping method	integer	4
mapped_IP	the adjusted IP computed from common mapping environment using quantile mapping method	integer	4
adj_ERA	the Era-Adjusted ER Average in that season that a pitcher achieves before applying smoothing and trimming	numeric	5.524
adj_SO	the Era-Adjusted SO in that season that a pitcher achieves before applying smoothing and trimming	numeric	5.524
ebWAR	the Era-Adjusted bWAR in that season that a player achieves after applying smoothing and trimming	numeric	153.49
efWAR	the Era-Adjusted fWAR in that season that a player achieves after applying smoothing and trimming	numeric	153.49

Table 1: Data dictionary for all the variables appear on the paper and supplementary materials