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Link: ilhamwahyu8/Statistics-Task: Use Case Statistics for IYKRA Task (github.com)

Preprocessing

- Pengambilan data tahun 2017 dan melakukan drop duplicate pada nama player.
- Explorasi nilai null terbanyak pada kolom blanl dan blank2 sebanyak 486 data dimana 486 data merupakan total data, sehingga kedua kolom tersebut didrop.
- Ada 36 nilai kosong pada variabel 3P%, tetapi hal itu masuk akal dikarenakan ada player yang tidak memasukkan 3P pada tahun 2017, sehingga nilai null ini dapat diabaikan.

Who is the youngest and oldest player in the NBA in 2017 for each team (Tm)?

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Pla	ayer	Age	Tm		Player	Ag
DeAndre' Ben	_	22.0	ATL		Thabo Sefolosha	32.0
Taurean Waller-Pr			ATL		Gary Neal	32.0
Jaylen Br			BOS		Gerald Green	31.0
Isaiah Whiteh		21.0	BRK		Luis Scola	36.0
Bobby P			CHI		Dwyane Wade	35.0
Christian W		21.0	CHO		Brian Roberts	31.0
Kay Fe			CLE		Chris Andersen	38.0
Ben B		21.0	DAL		Dirk Nowitzki	38.0
Jamal Mu		19.0	DEN		Mike Miller	36.0
Henry Eller	-	20.0	DET		Beno Udrih	34.0
-					David West	36.0
Stanley John		20.0	DET		Nene Hilario	34.0
Kevon Loc	-	20.0	GSW		Al Jefferson	32.0
Chinanu Onu		20.0	HOU		Aaron Brooks	32.0
Myles Tu		20.0	IND		Paul Pierce	39.0
Diamond St		19.0	LAC		Metta World	37.0
Ivica Zu		19.0	LAL		Vince Carter	40.0
Brandon Ing		19.0	LAL		Udonis Haslem	
Deyonta D			MEM		Jason Terry	
Wade Balo		20.0	MEM		John Lucas	34.0
Justise Wins		20.0	MIA		Jarrett Jack	33.0
Thon Ma	aker	19.0	MIL		Carmelo Anthony	
Tyus Jo	ones	20.0	MIN		_	32.0
Cheick D	iallo	20.0	NOP		Sasha Vujacio	
Kristaps Porzi	ngis	21.0	NYK		Nick Collison	
Domantas Sab	onis	20.0	OKC		C.J. Watson	
Stephen Zimmen	man	20.0	ORL		Tiago Splitter	
Timothe Luwawu-Caba	arrot	21.0	PHI		Leandro Barbosa	34.0
Jahlil Ok	afor	21.0	PHI		Tyson Chandler	
Derrick Jo	ones	19.0	PHO		Evan Turner	
Dragan Ber	nder	19.0	PHO		Arron Afflalo	
Marquese Ch	nriss	19.0	PHO		Anthony Tolliver	31.0
Noah Vo	nleh	21.0	POR		Manu Ginobili	39.0
Georgios Papagia	nnis	19.0	SAC		Kyle Lowry	
Dejounte Mu	ırray	20.0	SAS		DeMarre Carroll	30.0
Jakob P	oeltl	21.0	TOR		Mike Dunleavy	36.0
Bruno Cab	oclo	21.0	TOR		Matt Barnes	36.0
Chris McCullo	ugh	21.0	TOT		Joe Johnson	35.0
Dante E	xum	21.0	UTA		Marcin Gortat	32.0
Trey L	yles	21.0	UTA			
		24.5	1010.5			

Persebaran umur termuda berkisar di 19-21 sedangkan untuk tertua berkisar di 30-40.

Kelly Oubre 21.0 WAS

Which player has the most minutes played (MP) in each position (Pos)?

	Player	MP	Pos
24658	Andrew Wiggins	3048.0	SF
24625	Karl-Anthony Towns	3030.0	С
24306	James Harden	2947.0	PG
24127	Harrison Barnes	2803.0	PF
24443	C.J. McCollum	2796.0	SG
24405	Joffrey Lauvergne	980.0	PF-C

Andrew Wiggins menjadi player dengan Minutes Played tertinggi untuk posisi SF, dan juga menjadi MP teringgi untuk keseluruhan posisi.

Which team has the highest average total rebound percentage (TRB%), assist percentage (AST%), steal percentage (STL%), and block percentage (BLK%)?

Team: WAS	Team: DEN
AVG Total Rebound: 13.45	AVG Assist: 15.860000000000001
Team: MIN	Team: GSW
AVG Total Steal: 2.37142857142857	AVG Block: 2.74
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Who is the best player in your opinion based on his record stats? note: you can refer to variables point (PTS), assists, rebounds, or anything else. A combination of several variables would be nice.

Jika kita memilih beberapa atribut tanpa mementingkan posisi dari player tersebut maka Russell Westbrook menjadi pemain terbaik.

	Pos	Tm	PTS	AST	TRB	PTS	BLK	Overall
Player								
Russell Westbrook	PG	окс	1.0	0.927152	0.774194	1.0	0.14486	0.769241

Tetapi jika kita memberikan beberapa kasus mengenai tugas utama dari sebuah posisi pada team NBA maka hasilnya menjadi seperti ini:

1. Posisi PG variabel yang diambil adalah AST dan PTS.

	Pos	Tm	AST	PTS	Overall PG
Player					
Russell Westbrook	PG	окс	0.927072	1.0	0.963536

2. Posisi C variabel yang diambil adalah TRB dan BLK.

	Pos	Tm	TRB	BLK	Overall C
Player					
Rudy Gobert	С	UTA	0.927289	1.0	0.963645

3. Posisi SF variabel yang diambil adalah AST dan PTS.

 Pos
 Tm
 AST
 PTS
 Overall SF

 Player
 LeBron James
 SF
 CLE
 1.0
 1.0
 1.0

4. Posisi SG variabel yang diambil adalah 3P dan PTS.

 Pos
 Tm
 3P
 PTS
 Overall \$G

 Player
 Klay Thompson
 SG
 GSW
 1.0
 0.862376
 0.931188

5. Posisi PF variabel yang diambil adalah TRB, BLK dan PTS.

 Pos Player
 Tm
 TRB
 PTS
 BLK
 Overall PF

 Serge Ibaka
 PF
 TOT
 0.807229
 0.772727
 0.953846
 0.844601

Which team has the best average stat record of their players? Note: you can refer to points, assists, rebounds, or anything else. A combination of several variables would be nice.

Team dengan best average overall diduduki oleh GWS dengan nilai 0,21 menggunakan variabel PTS, AST, TRB, PTS, BLK.

AVG Overall: 0.21002002964180935 Pos Tm PTS **AST** TRB PTS BLK Overall Player Ian Clark 0.099338 0.109319 0.206020 SG GSW 0.206020 0.781470 Stephen Curry PG GSW 0.781470 0.577263 0.316308 Kevin Durant 0.607897 0.331126 0.459677 0.607897 0.462617 GSW Draymond Green GSW 0.303362 0.588300 0.536738 0.303362 0.495327 0.224394 0.289183 0.272401 0.224394 0.182243 Andre Iguodala GSW 0.007428 0.000000 0.020609 Damian Jones GSW 0.007428 0.018692 0.152072 0.153422 0.135305 0.152072 0.093458 Shaun Livingston GSW 0.052776 0.032009 0.111111 0.079439 Kevon Looney GSW 0.052776 0.057467 0.018764 0.080645 James Michael GSW 0.057467 0.135514 0.110242 0.090502 Patrick McCaw GSW 0.084989 0.110242 0.070093 JaVale McGee GSW 0.184519 0.018764 0.218638 0.184519 0.313084 0.166536 0.145695 0.367384 0.166536 Zaza Pachulia GSW 0.154206 Klay Thompson GSW 0.681001 0.176600 0.255376 0.681001 0.186916 0.024194 Anderson Varejao GSW 0.007037 0.011038 0.007037 0.014019 David West GSW