

Project1

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2/23/2020

Project Instruction

In this project, you're given a text file with chess tournament results where the information has some structure. Your job is to create an R Markdown file that generates a .CSV file (that could for example be imported into a SQL database) with the following information for all of the players: Player's Name, Player's State, Total Number of Points, Player's Pre-Rating, and Average Pre 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, 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.

```
#load library
#install.packages("stringr")
#install.packages("RMySQL")
#install.packages('tinytex')
#tinytex::install_tinytex()
library("stringr")
library(RMySQL)
```

```
## Loading required package: DBI
```

```
data1 <- "tournament.txt"
data1 <- readLines(data1)
data1
```

```
## [1] "-----"
## [2] " Pair | Player Name |Total|Round|Round|Round|Round|Round|Round|Round| "
## [3] " Num | USCF ID / Rtg (Pre->Post) | Pts | 1 | 2 | 3 | 4 | 5 | 6 | 7 | "
## [4] "-----"
## [5] " 1 | GARY HUA |6.0 |W 39|W 21|W 18|W 14|W 7|D 12|D 4|"
## [6] " ON | 15445895 / R: 1794 ->1817 |N:2 |W |B |W |B |W |B |W |"
## [7] "-----"
## [8] " 2 | DAKSHESH DARURI |6.0 |W 63|W 58|L 4|W 17|W 16|W 20|W 7|"
## [9] " MI | 14598900 / R: 1553 ->1663 |N:2 |B |W |B |W |B |W |B |"
## [10] "-----"
## [11] " 3 | ADITYA BAJAJ |6.0 |L 8|W 61|W 25|W 21|W 11|W 13|W 12|"
## [12] " MI | 14959604 / R: 1384 ->1640 |N:2 |W |B |W |B |W |B |W |"
## [13] "-----"
```

##	[14]	"	4		PATRICK H SCHILLING		5.5	W	23 D	28 W	2 W	26 D	5 W	19 D	1 "
##	[15]	"	MI		12616049 / R: 1716	->1744	N:2	W	B	W	B	W	B	B	"
##	[16]	"	-----												
##	[17]	"	5		HANSHI ZUO		5.5	W	45 W	37 D	12 D	13 D	4 W	14 W	17 "
##	[18]	"	MI		14601533 / R: 1655	->1690	N:2	B	W	B	W	B	W	B	"
##	[19]	"	-----												
##	[20]	"	6		HANSEN SONG		5.0	W	34 D	29 L	11 W	35 D	10 W	27 W	21 "
##	[21]	"	OH		15055204 / R: 1686	->1687	N:3	W	B	W	B	B	W	B	"
##	[22]	"	-----												
##	[23]	"	7		GARY DEE SWATHELL		5.0	W	57 W	46 W	13 W	11 L	1 W	9 L	2 "
##	[24]	"	MI		11146376 / R: 1649	->1673	N:3	W	B	W	B	B	W	W	"
##	[25]	"	-----												
##	[26]	"	8		EZEKIEL HOUGHTON		5.0	W	3 W	32 L	14 L	9 W	47 W	28 W	19 "
##	[27]	"	MI		15142253 / R: 1641P17->1657P24		N:3	B	W	B	W	B	W	W	"
##	[28]	"	-----												
##	[29]	"	9		STEFANO LEE		5.0	W	25 L	18 W	59 W	8 W	26 L	7 W	20 "
##	[30]	"	ON		14954524 / R: 1411	->1564	N:2	W	B	W	B	W	B	B	"
##	[31]	"	-----												
##	[32]	"	10		ANVIT RAO		5.0	D	16 L	19 W	55 W	31 D	6 W	25 W	18 "
##	[33]	"	MI		14150362 / R: 1365	->1544	N:3	W	W	B	B	W	B	W	"
##	[34]	"	-----												
##	[35]	"	11		CAMERON WILLIAM MC LEMAN		4.5	D	38 W	56 W	6 L	7 L	3 W	34 W	26 "
##	[36]	"	MI		12581589 / R: 1712	->1696	N:3	B	W	B	W	B	W	B	"
##	[37]	"	-----												
##	[38]	"	12		KENNETH J TACK		4.5	W	42 W	33 D	5 W	38 H	D	1 L	3 "
##	[39]	"	MI		12681257 / R: 1663	->1670	N:3	W	B	W	B		W	B	"
##	[40]	"	-----												
##	[41]	"	13		TORRANCE HENRY JR		4.5	W	36 W	27 L	7 D	5 W	33 L	3 W	32 "
##	[42]	"	MI		15082995 / R: 1666	->1662	N:3	B	W	B	B	W	W	B	"
##	[43]	"	-----												
##	[44]	"	14		BRADLEY SHAW		4.5	W	54 W	44 W	8 L	1 D	27 L	5 W	31 "
##	[45]	"	MI		10131499 / R: 1610	->1618	N:3	W	B	W	W	B	B	W	"
##	[46]	"	-----												
##	[47]	"	15		ZACHARY JAMES HOUGHTON		4.5	D	19 L	16 W	30 L	22 W	54 W	33 W	38 "
##	[48]	"	MI		15619130 / R: 1220P13->1416P20		N:3	B	B	W	W	B	B	W	"
##	[49]	"	-----												
##	[50]	"	16		MIKE NIKITIN		4.0	D	10 W	15 H	W	39 L	2 W	36 U	"
##	[51]	"	MI		10295068 / R: 1604	->1613	N:3	B	W		B	W	B		"
##	[52]	"	-----												
##	[53]	"	17		RONALD GRZEGORCZYK		4.0	W	48 W	41 L	26 L	2 W	23 W	22 L	5 "
##	[54]	"	MI		10297702 / R: 1629	->1610	N:3	W	B	W	B	W	B	W	"
##	[55]	"	-----												
##	[56]	"	18		DAVID SUNDEEN		4.0	W	47 W	9 L	1 W	32 L	19 W	38 L	10 "
##	[57]	"	MI		11342094 / R: 1600	->1600	N:3	B	W	B	W	B	W	B	"
##	[58]	"	-----												
##	[59]	"	19		DIPANKAR ROY		4.0	D	15 W	10 W	52 D	28 W	18 L	4 L	8 "
##	[60]	"	MI		14862333 / R: 1564	->1570	N:3	W	B	W	B	W	W	B	"
##	[61]	"	-----												
##	[62]	"	20		JASON ZHENG		4.0	L	40 W	49 W	23 W	41 W	28 L	2 L	9 "
##	[63]	"	MI		14529060 / R: 1595	->1569	N:4	W	B	W	B	W	B	W	"
##	[64]	"	-----												
##	[65]	"	21		DINH DANG BUI		4.0	W	43 L	1 W	47 L	3 W	40 W	39 L	6 "
##	[66]	"	ON		15495066 / R: 1563P22->1562		N:3	B	W	B	W	W	B	W	"
##	[67]	"	-----												

##	[68]	"	22		EUGENE L MCCLURE		4.0	W	64 D	52 L	28 W	15 H	L	17 W	40 "
##	[69]	"	MI		12405534 / R: 1555	->1529	N:4	W	B	W	B		W	B	"
##	[70]	"	-----"												
##	[71]	"	23		ALAN BUI		4.0	L	4 W	43 L	20 W	58 L	17 W	37 W	46 "
##	[72]	"	ON		15030142 / R: 1363	->1371		B	W	B	W	B	W	B	"
##	[73]	"	-----"												
##	[74]	"	24		MICHAEL R ALDRICH		4.0	L	28 L	47 W	43 L	25 W	60 W	44 W	39 "
##	[75]	"	MI		13469010 / R: 1229	->1300	N:4	B	W	B	B	W	W	B	"
##	[76]	"	-----"												
##	[77]	"	25		LOREN SCHWIEBERT		3.5	L	9 W	53 L	3 W	24 D	34 L	10 W	47 "
##	[78]	"	MI		12486656 / R: 1745	->1681	N:4	B	W	B	W	B	W	B	"
##	[79]	"	-----"												
##	[80]	"	26		MAX ZHU		3.5	W	49 W	40 W	17 L	4 L	9 D	32 L	11 "
##	[81]	"	ON		15131520 / R: 1579	->1564	N:4	B	W	B	W	B	W	W	"
##	[82]	"	-----"												
##	[83]	"	27		GAURAV GIDWANI		3.5	W	51 L	13 W	46 W	37 D	14 L	6 U	"
##	[84]	"	MI		14476567 / R: 1552	->1539	N:4	W	B	W	B	W	B		"
##	[85]	"	-----"												
##	[86]	"	28		SOFIA ADINA STANESCU-BELLU		3.5	W	24 D	4 W	22 D	19 L	20 L	8 D	36 "
##	[87]	"	MI		14882954 / R: 1507	->1513	N:3	W	W	B	W	B	B	W	"
##	[88]	"	-----"												
##	[89]	"	29		CHIEDOZIE OKORIE		3.5	W	50 D	6 L	38 L	34 W	52 W	48 U	"
##	[90]	"	MI		15323285 / R: 1602P6	->1508P12	N:4	B	W	B	W	W	B		"
##	[91]	"	-----"												
##	[92]	"	30		GEORGE AVERY JONES		3.5	L	52 D	64 L	15 W	55 L	31 W	61 W	50 "
##	[93]	"	ON		12577178 / R: 1522	->1444		W	B	B	W	W	B	B	"
##	[94]	"	-----"												
##	[95]	"	31		RISHI SHETTY		3.5	L	58 D	55 W	64 L	10 W	30 W	50 L	14 "
##	[96]	"	MI		15131618 / R: 1494	->1444		B	W	B	W	B	W	B	"
##	[97]	"	-----"												
##	[98]	"	32		JOSHUA PHILIP MATHEWS		3.5	W	61 L	8 W	44 L	18 W	51 D	26 L	13 "
##	[99]	"	ON		14073750 / R: 1441	->1433	N:4	W	B	W	B	W	B	W	"
##	[100]	"	-----"												
##	[101]	"	33		JADE GE		3.5	W	60 L	12 W	50 D	36 L	13 L	15 W	51 "
##	[102]	"	MI		14691842 / R: 1449	->1421		B	W	B	W	B	W	B	"
##	[103]	"	-----"												
##	[104]	"	34		MICHAEL JEFFERY THOMAS		3.5	L	6 W	60 L	37 W	29 D	25 L	11 W	52 "
##	[105]	"	MI		15051807 / R: 1399	->1400		B	W	B	B	W	B	W	"
##	[106]	"	-----"												
##	[107]	"	35		JOSHUA DAVID LEE		3.5	L	46 L	38 W	56 L	6 W	57 D	52 W	48 "
##	[108]	"	MI		14601397 / R: 1438	->1392		W	W	B	W	B	B	W	"
##	[109]	"	-----"												
##	[110]	"	36		SIDDHARTH JHA		3.5	L	13 W	57 W	51 D	33 H	L	16 D	28 "
##	[111]	"	MI		14773163 / R: 1355	->1367	N:4	W	B	W	B		W	B	"
##	[112]	"	-----"												
##	[113]	"	37		AMIYATOSH PWNANANDAM		3.5	B	L	5 W	34 L	27 H	L	23 W	61 "
##	[114]	"	MI		15489571 / R: 980P12->1077P17				B	W	W		B	W	"
##	[115]	"	-----"												
##	[116]	"	38		BRIAN LIU		3.0	D	11 W	35 W	29 L	12 H	L	18 L	15 "
##	[117]	"	MI		15108523 / R: 1423	->1439	N:4	W	B	W	W		B	B	"
##	[118]	"	-----"												
##	[119]	"	39		JOEL R HENDON		3.0	L	1 W	54 W	40 L	16 W	44 L	21 L	24 "
##	[120]	"	MI		12923035 / R: 1436P23->1413		N:4	B	W	B	W	B	W	W	"
##	[121]	"	-----"												

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## [122] " 40 | FOREST ZHANG |3.0 |W 20|L 26|L 39|W 59|L 21|W 56|L 22|"
## [123] " MI | 14892710 / R: 1348 ->1346 | |B |B |W |W |B |W |W |"
## [124] "-----"
## [125] " 41 | KYLE WILLIAM MURPHY |3.0 |W 59|L 17|W 58|L 20|X |U |U |"
## [126] " MI | 15761443 / R: 1403P5 ->1341P9 | |B |W |B |W | | | |"
## [127] "-----"
## [128] " 42 | JARED GE |3.0 |L 12|L 50|L 57|D 60|D 61|W 64|W 56|"
## [129] " MI | 14462326 / R: 1332 ->1256 | |B |W |B |B |W |W |B |"
## [130] "-----"
## [131] " 43 | ROBERT GLEN VASEY |3.0 |L 21|L 23|L 24|W 63|W 59|L 46|W 55|"
## [132] " MI | 14101068 / R: 1283 ->1244 | |W |B |W |W |B |B |W |"
## [133] "-----"
## [134] " 44 | JUSTIN D SCHILLING |3.0 |B |L 14|L 32|W 53|L 39|L 24|W 59|"
## [135] " MI | 15323504 / R: 1199 ->1199 | | |W |B |B |W |B |W |"
## [136] "-----"
## [137] " 45 | DEREK YAN |3.0 |L 5|L 51|D 60|L 56|W 63|D 55|W 58|"
## [138] " MI | 15372807 / R: 1242 ->1191 | |W |B |W |B |W |B |W |"
## [139] "-----"
## [140] " 46 | JACOB ALEXANDER LAVALLEY |3.0 |W 35|L 7|L 27|L 50|W 64|W 43|L 23|"
## [141] " MI | 15490981 / R: 377P3 ->1076P10 | |B |W |B |W |B |W |W |"
## [142] "-----"
## [143] " 47 | ERIC WRIGHT |2.5 |L 18|W 24|L 21|W 61|L 8|D 51|L 25|"
## [144] " MI | 12533115 / R: 1362 ->1341 | |W |B |W |B |W |B |W |"
## [145] "-----"
## [146] " 48 | DANIEL KHAIN |2.5 |L 17|W 63|H |D 52|H |L 29|L 35|"
## [147] " MI | 14369165 / R: 1382 ->1335 | |B |W | |B | |W |B |"
## [148] "-----"
## [149] " 49 | MICHAEL J MARTIN |2.5 |L 26|L 20|D 63|D 64|W 58|H |U |"
## [150] " MI | 12531685 / R: 1291P12->1259P17 | |W |W |B |W |B | | |"
## [151] "-----"
## [152] " 50 | SHIVAM JHA |2.5 |L 29|W 42|L 33|W 46|H |L 31|L 30|"
## [153] " MI | 14773178 / R: 1056 ->1111 | |W |B |W |B | |B |W |"
## [154] "-----"
## [155] " 51 | TEJAS AYYAGARI |2.5 |L 27|W 45|L 36|W 57|L 32|D 47|L 33|"
## [156] " MI | 15205474 / R: 1011 ->1097 | |B |W |B |W |B |W |W |"
## [157] "-----"
## [158] " 52 | ETHAN GUO |2.5 |W 30|D 22|L 19|D 48|L 29|D 35|L 34|"
## [159] " MI | 14918803 / R: 935 ->1092 |N:4 |B |W |B |W |B |W |B |"
## [160] "-----"
## [161] " 53 | JOSE C YBARRA |2.0 |H |L 25|H |L 44|U |W 57|U |"
## [162] " MI | 12578849 / R: 1393 ->1359 | | |B | |W | |W | |"
## [163] "-----"
## [164] " 54 | LARRY HODGE |2.0 |L 14|L 39|L 61|B |L 15|L 59|W 64|"
## [165] " MI | 12836773 / R: 1270 ->1200 | |B |B |W | |W |B |W |"
## [166] "-----"
## [167] " 55 | ALEX KONG |2.0 |L 62|D 31|L 10|L 30|B |D 45|L 43|"
## [168] " MI | 15412571 / R: 1186 ->1163 | |W |B |W |B | |W |B |"
## [169] "-----"
## [170] " 56 | MARISA RICCI |2.0 |H |L 11|L 35|W 45|H |L 40|L 42|"
## [171] " MI | 14679887 / R: 1153 ->1140 | | |B |W |W | |B |W |"
## [172] "-----"
## [173] " 57 | MICHAEL LU |2.0 |L 7|L 36|W 42|L 51|L 35|L 53|B |"
## [174] " MI | 15113330 / R: 1092 ->1079 | |B |W |W |B |W |B |"
## [175] "-----"

```

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## [176] " 58 | VIRAJ MOHILE |2.0 |W 31|L 2|L 41|L 23|L 49|B |L 45|"
## [177] " MI | 14700365 / R: 917 -> 941 | |W |B |W |B |W | |B |"
## [178] "-----"
## [179] " 59 | SEAN M MC CORMICK |2.0 |L 41|B |L 9|L 40|L 43|W 54|L 44|"
## [180] " MI | 12841036 / R: 853 -> 878 | |W | |B |B |W |W |B |"
## [181] "-----"
## [182] " 60 | JULIA SHEN |1.5 |L 33|L 34|D 45|D 42|L 24|H |U |"
## [183] " MI | 14579262 / R: 967 -> 984 | |W |B |B |W |B | | |"
## [184] "-----"
## [185] " 61 | JEZZEL FARKAS |1.5 |L 32|L 3|W 54|L 47|D 42|L 30|L 37|"
## [186] " ON | 15771592 / R: 955P11-> 979P18 | |B |W |B |W |B |W |B |"
## [187] "-----"
## [188] " 62 | ASHWIN BALAJI |1.0 |W 55|U |U |U |U |U |U |"
## [189] " MI | 15219542 / R: 1530 ->1535 | |B | | | | | | |"
## [190] "-----"
## [191] " 63 | THOMAS JOSEPH HOSMER |1.0 |L 2|L 48|D 49|L 43|L 45|H |U |"
## [192] " MI | 15057092 / R: 1175 ->1125 | |W |B |W |B |B | | |"
## [193] "-----"
## [194] " 64 | BEN LI |1.0 |L 22|D 30|L 31|D 49|L 46|L 42|L 54|"
## [195] " MI | 15006561 / R: 1163 ->1112 | |B |W |W |B |W |B |B |"
## [196] "-----"

```

#remove "--" from data

```

line <- str_detect(data1,"\\-----")
chess_data <- data1[!line]
chess_data

```

```

## [1] " Pair | Player Name |Total|Round|Round|Round|Round|Round|Round|Round| "
## [2] " Num | USCF ID / Rtg (Pre->Post) | Pts | 1 | 2 | 3 | 4 | 5 | 6 | 7 | "
## [3] " 1 | GARY HUA |6.0 |W 39|W 21|W 18|W 14|W 7|D 12|D 4|"
## [4] " ON | 15445895 / R: 1794 ->1817 |N:2 |W |B |W |B |W |B |W |"
## [5] " 2 | DAKSHESH DARURI |6.0 |W 63|W 58|L 4|W 17|W 16|W 20|W 7|"
## [6] " MI | 14598900 / R: 1553 ->1663 |N:2 |B |W |B |W |B |W |B |"
## [7] " 3 | ADITYA BAJAJ |6.0 |L 8|W 61|W 25|W 21|W 11|W 13|W 12|"
## [8] " MI | 14959604 / R: 1384 ->1640 |N:2 |W |B |W |B |W |B |W |"
## [9] " 4 | PATRICK H SCHILLING |5.5 |W 23|D 28|W 2|W 26|D 5|W 19|D 1|"
## [10] " MI | 12616049 / R: 1716 ->1744 |N:2 |W |B |W |B |W |B |B |"
## [11] " 5 | HANSHI ZUO |5.5 |W 45|W 37|D 12|D 13|D 4|W 14|W 17|"
## [12] " MI | 14601533 / R: 1655 ->1690 |N:2 |B |W |B |W |B |W |B |"
## [13] " 6 | HANSEN SONG |5.0 |W 34|D 29|L 11|W 35|D 10|W 27|W 21|"
## [14] " OH | 15055204 / R: 1686 ->1687 |N:3 |W |B |W |B |B |W |B |"
## [15] " 7 | GARY DEE SWATHELL |5.0 |W 57|W 46|W 13|W 11|L 1|W 9|L 2|"
## [16] " MI | 11146376 / R: 1649 ->1673 |N:3 |W |B |W |B |B |W |W |"
## [17] " 8 | EZEKIEL HOUGHTON |5.0 |W 3|W 32|L 14|L 9|W 47|W 28|W 19|"
## [18] " MI | 15142253 / R: 1641P17->1657P24 |N:3 |B |W |B |W |B |W |W |"
## [19] " 9 | STEFANO LEE |5.0 |W 25|L 18|W 59|W 8|W 26|L 7|W 20|"
## [20] " ON | 14954524 / R: 1411 ->1564 |N:2 |W |B |W |B |W |B |B |"
## [21] " 10 | ANVIT RAO |5.0 |D 16|L 19|W 55|W 31|D 6|W 25|W 18|"
## [22] " MI | 14150362 / R: 1365 ->1544 |N:3 |W |W |B |B |W |B |W |"
## [23] " 11 | CAMERON WILLIAM MC LEMAN |4.5 |D 38|W 56|W 6|L 7|L 3|W 34|W 26|"
## [24] " MI | 12581589 / R: 1712 ->1696 |N:3 |B |W |B |W |B |W |B |"
## [25] " 12 | KENNETH J TACK |4.5 |W 42|W 33|D 5|W 38|H |D 1|L 3|"
## [26] " MI | 12681257 / R: 1663 ->1670 |N:3 |W |B |W |B | |W |B |"
## [27] " 13 | TORRANCE HENRY JR |4.5 |W 36|W 27|L 7|D 5|W 33|L 3|W 32|"

```

##	[28]	"	MI		15082995 / R: 1666	->1662	N:3	B	W	B	B	W	W	B	"
##	[29]	"	14		BRADLEY SHAW		4.5	W	54 W	44 W	8 L	1 D	27 L	5 W	31 "
##	[30]	"	MI		10131499 / R: 1610	->1618	N:3	W	B	W	W	B	B	W	"
##	[31]	"	15		ZACHARY JAMES HOUGHTON		4.5	D	19 L	16 W	30 L	22 W	54 W	33 W	38 "
##	[32]	"	MI		15619130 / R: 1220P13->1416P20		N:3	B	B	W	W	B	B	W	"
##	[33]	"	16		MIKE NIKITIN		4.0	D	10 W	15 H	W	39 L	2 W	36 U	"
##	[34]	"	MI		10295068 / R: 1604	->1613	N:3	B	W		B	W	B		"
##	[35]	"	17		RONALD GRZEGORCZYK		4.0	W	48 W	41 L	26 L	2 W	23 W	22 L	5 "
##	[36]	"	MI		10297702 / R: 1629	->1610	N:3	W	B	W	B	W	B	W	"
##	[37]	"	18		DAVID SUNDEEN		4.0	W	47 W	9 L	1 W	32 L	19 W	38 L	10 "
##	[38]	"	MI		11342094 / R: 1600	->1600	N:3	B	W	B	W	B	W	B	"
##	[39]	"	19		DIPANKAR ROY		4.0	D	15 W	10 W	52 D	28 W	18 L	4 L	8 "
##	[40]	"	MI		14862333 / R: 1564	->1570	N:3	W	B	W	B	W	W	B	"
##	[41]	"	20		JASON ZHENG		4.0	L	40 W	49 W	23 W	41 W	28 L	2 L	9 "
##	[42]	"	MI		14529060 / R: 1595	->1569	N:4	W	B	W	B	W	B	W	"
##	[43]	"	21		DINH DANG BUI		4.0	W	43 L	1 W	47 L	3 W	40 W	39 L	6 "
##	[44]	"	ON		15495066 / R: 1563P22->1562		N:3	B	W	B	W	W	B	W	"
##	[45]	"	22		EUGENE L MCCLURE		4.0	W	64 D	52 L	28 W	15 H	L	17 W	40 "
##	[46]	"	MI		12405534 / R: 1555	->1529	N:4	W	B	W	B		W	B	"
##	[47]	"	23		ALAN BUI		4.0	L	4 W	43 L	20 W	58 L	17 W	37 W	46 "
##	[48]	"	ON		15030142 / R: 1363	->1371		B	W	B	W	B	W	B	"
##	[49]	"	24		MICHAEL R ALDRICH		4.0	L	28 L	47 W	43 L	25 W	60 W	44 W	39 "
##	[50]	"	MI		13469010 / R: 1229	->1300	N:4	B	W	B	B	W	W	B	"
##	[51]	"	25		LOREN SCHWIEBERT		3.5	L	9 W	53 L	3 W	24 D	34 L	10 W	47 "
##	[52]	"	MI		12486656 / R: 1745	->1681	N:4	B	W	B	W	B	W	B	"
##	[53]	"	26		MAX ZHU		3.5	W	49 W	40 W	17 L	4 L	9 D	32 L	11 "
##	[54]	"	ON		15131520 / R: 1579	->1564	N:4	B	W	B	W	B	W	W	"
##	[55]	"	27		GAURAV GIDWANI		3.5	W	51 L	13 W	46 W	37 D	14 L	6 U	"
##	[56]	"	MI		14476567 / R: 1552	->1539	N:4	W	B	W	B	W	B		"
##	[57]	"	28		SOFIA ADINA STANESCU-BELLU		3.5	W	24 D	4 W	22 D	19 L	20 L	8 D	36 "
##	[58]	"	MI		14882954 / R: 1507	->1513	N:3	W	W	B	W	B	B	W	"
##	[59]	"	29		CHIEDOZIE OKORIE		3.5	W	50 D	6 L	38 L	34 W	52 W	48 U	"
##	[60]	"	MI		15323285 / R: 1602P6 ->1508P12		N:4	B	W	B	W	W	B		"
##	[61]	"	30		GEORGE AVERY JONES		3.5	L	52 D	64 L	15 W	55 L	31 W	61 W	50 "
##	[62]	"	ON		12577178 / R: 1522	->1444		W	B	B	W	W	B	B	"
##	[63]	"	31		RISHI SHETTY		3.5	L	58 D	55 W	64 L	10 W	30 W	50 L	14 "
##	[64]	"	MI		15131618 / R: 1494	->1444		B	W	B	W	B	W	B	"
##	[65]	"	32		JOSHUA PHILIP MATHEWS		3.5	W	61 L	8 W	44 L	18 W	51 D	26 L	13 "
##	[66]	"	ON		14073750 / R: 1441	->1433	N:4	W	B	W	B	W	B	W	"
##	[67]	"	33		JADE GE		3.5	W	60 L	12 W	50 D	36 L	13 L	15 W	51 "
##	[68]	"	MI		14691842 / R: 1449	->1421		B	W	B	W	B	W	B	"
##	[69]	"	34		MICHAEL JEFFERY THOMAS		3.5	L	6 W	60 L	37 W	29 D	25 L	11 W	52 "
##	[70]	"	MI		15051807 / R: 1399	->1400		B	W	B	B	W	B	W	"
##	[71]	"	35		JOSHUA DAVID LEE		3.5	L	46 L	38 W	56 L	6 W	57 D	52 W	48 "
##	[72]	"	MI		14601397 / R: 1438	->1392		W	W	B	W	B	B	W	"
##	[73]	"	36		SIDDHARTH JHA		3.5	L	13 W	57 W	51 D	33 H	L	16 D	28 "
##	[74]	"	MI		14773163 / R: 1355	->1367	N:4	W	B	W	B		W	B	"
##	[75]	"	37		AMIYATOSH PWNANANDAM		3.5	B	L	5 W	34 L	27 H	L	23 W	61 "
##	[76]	"	MI		15489571 / R: 980P12->1077P17				B	W	W		B	W	"
##	[77]	"	38		BRIAN LIU		3.0	D	11 W	35 W	29 L	12 H	L	18 L	15 "
##	[78]	"	MI		15108523 / R: 1423	->1439	N:4	W	B	W	W		B	B	"
##	[79]	"	39		JOEL R HENDON		3.0	L	1 W	54 W	40 L	16 W	44 L	21 L	24 "
##	[80]	"	MI		12923035 / R: 1436P23->1413		N:4	B	W	B	W	B	W	W	"
##	[81]	"	40		FOREST ZHANG		3.0	W	20 L	26 L	39 W	59 L	21 W	56 L	22 "

##	[82]	"	MI		14892710 / R: 1348	->1346		B	B	W	W	B	W	W	"
##	[83]	"	41		KYLE WILLIAM MURPHY		3.0	W	59 L	17 W	58 L	20 X	U	U	"
##	[84]	"	MI		15761443 / R: 1403P5	->1341P9		B	W	B	W				"
##	[85]	"	42		JARED GE		3.0	L	12 L	50 L	57 D	60 D	61 W	64 W	56 "
##	[86]	"	MI		14462326 / R: 1332	->1256		B	W	B	B	W	W	B	"
##	[87]	"	43		ROBERT GLEN VASEY		3.0	L	21 L	23 L	24 W	63 W	59 L	46 W	55 "
##	[88]	"	MI		14101068 / R: 1283	->1244		W	B	W	W	B	B	W	"
##	[89]	"	44		JUSTIN D SCHILLING		3.0	B	L	14 L	32 W	53 L	39 L	24 W	59 "
##	[90]	"	MI		15323504 / R: 1199	->1199			W	B	B	W	B	W	"
##	[91]	"	45		DEREK YAN		3.0	L	5 L	51 D	60 L	56 W	63 D	55 W	58 "
##	[92]	"	MI		15372807 / R: 1242	->1191		W	B	W	B	W	B	W	"
##	[93]	"	46		JACOB ALEXANDER LAVALLEY		3.0	W	35 L	7 L	27 L	50 W	64 W	43 L	23 "
##	[94]	"	MI		15490981 / R: 377P3	->1076P10		B	W	B	W	B	W	W	"
##	[95]	"	47		ERIC WRIGHT		2.5	L	18 W	24 L	21 W	61 L	8 D	51 L	25 "
##	[96]	"	MI		12533115 / R: 1362	->1341		W	B	W	B	W	B	W	"
##	[97]	"	48		DANIEL KHAIN		2.5	L	17 W	63 H	D	52 H	L	29 L	35 "
##	[98]	"	MI		14369165 / R: 1382	->1335		B	W		B		W	B	"
##	[99]	"	49		MICHAEL J MARTIN		2.5	L	26 L	20 D	63 D	64 W	58 H	U	"
##	[100]	"	MI		12531685 / R: 1291P12->1259P17			W	W	B	W	B			"
##	[101]	"	50		SHIVAM JHA		2.5	L	29 W	42 L	33 W	46 H	L	31 L	30 "
##	[102]	"	MI		14773178 / R: 1056	->1111		W	B	W	B		B	W	"
##	[103]	"	51		TEJAS AYYAGARI		2.5	L	27 W	45 L	36 W	57 L	32 D	47 L	33 "
##	[104]	"	MI		15205474 / R: 1011	->1097		B	W	B	W	B	W	W	"
##	[105]	"	52		ETHAN GUO		2.5	W	30 D	22 L	19 D	48 L	29 D	35 L	34 "
##	[106]	"	MI		14918803 / R: 935	->1092	N:4	B	W	B	W	B	W	B	"
##	[107]	"	53		JOSE C YBARRA		2.0	H	L	25 H	L	44 U	W	57 U	"
##	[108]	"	MI		12578849 / R: 1393	->1359			B		W		W		"
##	[109]	"	54		LARRY HODGE		2.0	L	14 L	39 L	61 B	L	15 L	59 W	64 "
##	[110]	"	MI		12836773 / R: 1270	->1200		B	B	W		W	B	W	"
##	[111]	"	55		ALEX KONG		2.0	L	62 D	31 L	10 L	30 B	D	45 L	43 "
##	[112]	"	MI		15412571 / R: 1186	->1163		W	B	W	B		W	B	"
##	[113]	"	56		MARISA RICCI		2.0	H	L	11 L	35 W	45 H	L	40 L	42 "
##	[114]	"	MI		14679887 / R: 1153	->1140			B	W	W		B	W	"
##	[115]	"	57		MICHAEL LU		2.0	L	7 L	36 W	42 L	51 L	35 L	53 B	"
##	[116]	"	MI		15113330 / R: 1092	->1079		B	W	W	B	W	B		"
##	[117]	"	58		VIRAJ MOHILE		2.0	W	31 L	2 L	41 L	23 L	49 B	L	45 "
##	[118]	"	MI		14700365 / R: 917	-> 941		W	B	W	B	W		B	"
##	[119]	"	59		SEAN M MC CORMICK		2.0	L	41 B	L	9 L	40 L	43 W	54 L	44 "
##	[120]	"	MI		12841036 / R: 853	-> 878		W		B	B	W	W	B	"
##	[121]	"	60		JULIA SHEN		1.5	L	33 L	34 D	45 D	42 L	24 H	U	"
##	[122]	"	MI		14579262 / R: 967	-> 984		W	B	B	W	B			"
##	[123]	"	61		JEZZEL FARKAS		1.5	L	32 L	3 W	54 L	47 D	42 L	30 L	37 "
##	[124]	"	ON		15771592 / R: 955P11-> 979P18			B	W	B	W	B	W	B	"
##	[125]	"	62		ASHWIN BALAJI		1.0	W	55 U	U	U	U	U	U	"
##	[126]	"	MI		15219542 / R: 1530	->1535		B							"
##	[127]	"	63		THOMAS JOSEPH HOSMER		1.0	L	2 L	48 D	49 L	43 L	45 H	U	"
##	[128]	"	MI		15057092 / R: 1175	->1125		W	B	W	B	B			"
##	[129]	"	64		BEN LI		1.0	L	22 D	30 L	31 D	49 L	46 L	42 L	54 "
##	[130]	"	MI		15006561 / R: 1163	->1112		B	W	W	B	W	B	B	"

Extract player's id

```
id_pattern <- "\\d{1,2}\\s(?:=\\|)"
ply_id <- unlist(str_extract_all(unlist(chess_data), id_pattern))
ply_id
```

```
## [1] "1 " "2 " "3 " "4 " "5 " "6 " "7 " "8 " "9 " "10 " "11 " "12 "
## [13] "13 " "14 " "15 " "16 " "17 " "18 " "19 " "20 " "21 " "22 " "23 " "24 "
## [25] "25 " "26 " "27 " "28 " "29 " "30 " "31 " "32 " "33 " "34 " "35 " "36 "
## [37] "37 " "38 " "39 " "40 " "41 " "42 " "43 " "44 " "45 " "46 " "47 " "48 "
## [49] "49 " "50 " "51 " "52 " "53 " "54 " "55 " "56 " "57 " "58 " "59 " "60 "
## [61] "61 " "62 " "63 " "64 "
```

```
length(ply_id)
```

```
## [1] 64
```

Extract player's name

```
#extract names of all players
name_pattern <- "([A-Z]+\\s){2,3}"
ply_names <- unlist(str_extract_all(unlist(chess_data), name_pattern))
ply_names <- ply_names[2:length(ply_names)]
ply_names
```

```
## [1] "GARY HUA " "DAKSHESH DARURI "
## [3] "ADITYA BAJAJ " "PATRICK H SCHILLING "
## [5] "HANSHI ZUO " "HANSEN SONG "
## [7] "GARY DEE SWATHELL " "EZEKIEL HOUGHTON "
## [9] "STEFANO LEE " "ANVIT RAO "
## [11] "CAMERON WILLIAM MC " "KENNETH J TACK "
## [13] "TORRANCE HENRY JR " "BRADLEY SHAW "
## [15] "ZACHARY JAMES HOUGHTON " "MIKE NIKITIN "
## [17] "RONALD GRZEGORCZYK " "DAVID SUNDEEN "
## [19] "DIPANKAR ROY " "JASON ZHENG "
## [21] "DINH DANG BUI " "EUGENE L MCCLURE "
## [23] "ALAN BUI " "MICHAEL R ALDRICH "
## [25] "LOREN SCHWIEBERT " "MAX ZHU "
## [27] "GAURAV GIDWANI " "SOFIA ADINA "
## [29] "CHIEDOZIE OKORIE " "GEORGE AVERY JONES "
## [31] "RISHI SHETTY " "JOSHUA PHILIP MATHEWS "
## [33] "JADE GE " "MICHAEL JEFFERY THOMAS "
## [35] "JOSHUA DAVID LEE " "SIDDHARTH JHA "
## [37] "AMIYATOSH PWNANANDAM " "BRIAN LIU "
## [39] "JOEL R HENDON " "FOREST ZHANG "
## [41] "KYLE WILLIAM MURPHY " "JARED GE "
## [43] "ROBERT GLEN VASEY " "JUSTIN D SCHILLING "
## [45] "DEREK YAN " "JACOB ALEXANDER LAVALLEY "
## [47] "ERIC WRIGHT " "DANIEL KHAIN "
```



```
## [49] "MICHAEL J MARTIN " "SHIVAM JHA "
## [51] "TEJAS AYYAGARI " "ETHAN GUO "
## [53] "JOSE C YBARRA " "LARRY HODGE "
## [55] "ALEX KONG " "MARISA RICCI "
## [57] "MICHAEL LU " "VIRAJ MOHILE "
## [59] "SEAN M MC " "JULIA SHEN "
## [61] "JEZZEL FARKAS " "ASHWIN BALAJI "
## [63] "THOMAS JOSEPH HOSMER " "BEN LI "
```

```
length(ply_names)
```

```
## [1] 64
```

Extract player's state

```
state_pattern <- "([A-Z]){2}\\s(?:\\|)"
states <- unlist(str_extract_all(unlist(chess_data), state_pattern))
head(states, 10)
```

```
## [1] "ON " "MI " "MI " "MI " "MI " "OH " "MI " "MI " "ON " "MI "
```

```
length(states)
```

```
## [1] 64
```

Extract player's total number of points

```
points_pattern <- "\\d\\.\\d"
total_points <- unlist(str_extract_all(unlist(chess_data), points_pattern))
head(total_points, 10)
```

```
## [1] "6.0" "6.0" "6.0" "5.5" "5.5" "5.0" "5.0" "5.0" "5.0" "5.0"
```

```
length(total_points)
```

```
## [1] 64
```

Extract player's pre-rating

```
pre_rating_pattern <- "(?!\\>\\s)(?<=\\s{1,2}|\\s\\:)(\\d{3,4}(?=\\s|P))"
pre_rating <- unlist(str_extract_all(unlist(chess_data), pre_rating_pattern))
pre_rating
```

```
## [1] "1794" "1553" "1384" "1716" "1655" "1686" "1649" "1641" "1411" "1365"
## [11] "1712" "1663" "1666" "1610" "1220" "1604" "1629" "1600" "1564" "1595"
## [21] "1563" "1555" "1363" "1229" "1745" "1579" "1552" "1507" "1602" "1522"
## [31] "1494" "1441" "1449" "1399" "1438" "1355" "980" "1423" "1436" "1348"
## [41] "1403" "1332" "1283" "1199" "1242" "377" "1362" "1382" "1291" "1056"
## [51] "1011" "935" "1393" "1270" "1186" "1153" "1092" "917" "853" "967"
## [61] "955" "1530" "1175" "1163"
```

```
length(pre_rating)
```

```
## [1] 64
```

Calculate Average pre-rating

```
rounds_pattern <- "(\\d{1,2}|[[:space:]]{1})(?=\\|)"
player_opponents <- unlist(str_extract_all(unlist(chess_data), rounds_pattern))
player_opponents[player_opponents==" "] = 0
#length(player_opponents)
#player_opponents
round1 <- as.numeric(player_opponents[seq(16, length(player_opponents), 20)])
round1
```

```
## [1] 39 63 8 23 45 34 57 3 25 16 38 42 36 54 19 10 48 47 15 40 43 64 4 28 9
## [26] 49 51 24 50 52 58 61 60 6 46 13 0 11 1 20 59 12 21 0 5 35 18 17 26 29
## [51] 27 30 0 14 62 0 7 31 41 33 32 55 2 22
```

```
round2 <- as.numeric(player_opponents[seq(17, length(player_opponents), 20)])
round2
```

```
## [1] 21 58 61 28 37 29 46 32 18 19 56 33 27 44 16 15 41 9 10 49 1 52 43 47 53
## [26] 40 13 4 6 64 55 8 12 60 38 57 5 35 54 26 17 50 23 14 51 7 24 63 20 42
## [51] 45 22 25 39 31 11 36 2 0 34 3 0 48 30
```

```
round3 <- as.numeric(player_opponents[seq(18, length(player_opponents), 20)])
round3
```

```
## [1] 18 4 25 2 12 11 13 14 59 55 6 5 7 8 30 0 26 1 52 23 47 28 20 43 3
## [26] 17 46 22 38 15 64 44 50 37 56 51 34 29 40 39 58 57 24 32 60 27 21 0 63 33
## [51] 36 19 0 61 10 35 42 41 9 45 54 0 49 31
```

```
round4 <- as.numeric(player_opponents[seq(19, length(player_opponents), 20)])
round4
```

```
## [1] 14 17 21 26 13 35 11 9 8 31 7 38 5 1 22 39 2 32 28 41 3 15 58 25 24
## [26] 4 37 19 34 55 10 18 36 29 6 33 27 12 16 59 20 60 63 53 56 50 61 52 64 46
## [51] 57 48 44 0 30 45 51 23 40 42 47 0 43 49
```

```
round5 <- as.numeric(player_opponents[seq(20, length(player_opponents), 20)])
round5
```

```
## [1] 7 16 11 5 4 10 1 47 26 6 3 0 33 27 54 2 23 19 18 28 40 0 17 60 34
## [26] 9 14 20 52 31 30 51 13 25 57 0 0 0 44 21 0 61 59 39 63 64 8 0 58 0
## [51] 32 29 0 15 0 0 35 49 43 24 42 0 45 46
```

```
round6 <- as.numeric(player_opponents[seq(21, length(player_opponents), 20)])
round6
```

```
## [1] 12 20 13 19 14 27 9 28 7 25 34 1 3 5 33 36 22 38 4 2 39 17 37 44 10
## [26] 32 6 8 48 61 50 26 15 11 52 16 23 18 21 56 0 64 46 24 55 43 51 29 0 31
## [51] 47 35 57 59 45 40 53 0 54 0 30 0 0 42
```

```
round7 <- as.numeric(player_opponents[seq(22, length(player_opponents), 20)])
round7
```

```
## [1] 4 7 12 1 17 21 2 19 20 18 26 3 32 31 38 0 5 10 8 9 6 40 46 39 47
## [26] 11 0 36 0 50 14 13 51 52 48 28 61 15 24 22 0 56 55 59 58 23 25 35 0 30
## [51] 33 34 0 64 43 42 0 45 44 0 37 0 0 54
```

```
player_opponents <- matrix(c(round1, round2, round3, round4, round5, round6, round7),nrow = 64, ncol = 20)
#player_opponents
avg_pre_rating = 0
for (i in 1:64)
{
  avg_pre_rating[i] <- round(mean(as.numeric(pre_rating[player_opponents[i,]]), na.rm = TRUE),0)
}
avg_pre_rating
```

```
## [1] 1605 1469 1564 1574 1501 1519 1372 1468 1523 1554 1468 1506 1498 1515 1484
## [16] 1386 1499 1480 1426 1411 1470 1300 1214 1357 1363 1507 1222 1522 1314 1144
## [31] 1260 1379 1277 1375 1150 1388 1385 1539 1430 1391 1248 1150 1107 1327 1152
## [46] 1358 1392 1356 1286 1296 1356 1495 1345 1206 1406 1414 1363 1391 1319 1330
## [61] 1327 1186 1350 1263
```

Creare table

```
tournament_table <- data.frame(ply_id,ply_names, states, total_points, pre_rating, avg_pre_rating)
head(tournament_table)
```

```
## ply_id ply_names states total_points pre_rating avg_pre_rating
## 1 1 GARY HUA ON 6.0 1794 1605
## 2 2 DAKSHESH DARURI MI 6.0 1553 1469
## 3 3 ADITYA BAJAJ MI 6.0 1384 1564
## 4 4 PATRICK H SCHILLING MI 5.5 1716 1574
## 5 5 HANSHI ZUO MI 5.5 1655 1501
## 6 6 HANSEN SONG OH 5.0 1686 1519
```

Export data to CSV

```
write.csv(tournament_table, file = "TournamentTable.csv")
```

Connect to Mysql

```
db_user <- 'root'
db_password <- 'root'
db_name <- 'tournament'
db_host <- 'localhost'
db_port <- 3306
mydb <- dbConnect(MySQL(), user = db_user, password = db_password, dbname = db_name, host = db_host, port = db_port)
dbListTables(mydb)
```

```
## [1] "tournament"
```

```
dbReadTable(mydb, "tournament")
```

##	ply_id	ply_names	states	total_points	pre_rating
## 1	1	GARY HUA	ON	6.0	1794
## 2	2	DAKSHESH DARURI	MI	6.0	1553
## 3	3	ADITYA BAJAJ	MI	6.0	1384
## 4	4	PATRICK H SCHILLING	MI	5.5	1716
## 5	5	HANSHI ZUO	MI	5.5	1655
## 6	6	HANSEN SONG	OH	5.0	1686
## 7	7	GARY DEE SWATHELL	MI	5.0	1649
## 8	8	EZEKIEL HOUGHTON	MI	5.0	1641
## 9	9	STEFANO LEE	ON	5.0	1411
## 10	10	ANVIT RAO	MI	5.0	1365
## 11	11	CAMERON WILLIAM MC	MI	4.5	1712
## 12	12	KENNETH J TACK	MI	4.5	1663
## 13	13	TORRANCE HENRY JR	MI	4.5	1666
## 14	14	BRADLEY SHAW	MI	4.5	1610
## 15	15	ZACHARY JAMES HOUGHTON	MI	4.5	1220
## 16	16	MIKE NIKITIN	MI	4.0	1604
## 17	17	RONALD GRZEGORCZYK	MI	4.0	1629
## 18	18	DAVID SUNDEEN	MI	4.0	1600
## 19	19	DIPANKAR ROY	MI	4.0	1564
## 20	20	JASON ZHENG	MI	4.0	1595
## 21	21	DINH DANG BUI	ON	4.0	1563
## 22	22	EUGENE L MCCLURE	MI	4.0	1555
## 23	23	ALAN BUI	ON	4.0	1363
## 24	24	MICHAEL R ALDRICH	MI	4.0	1229
## 25	25	LOREN SCHWIEBERT	MI	3.5	1745
## 26	26	MAX ZHU	ON	3.5	1579
## 27	27	GAURAV GIDWANI	MI	3.5	1552
## 28	28	SOFIA ADINA	MI	3.5	1507
## 29	29	CHIEDOZIE OKORIE	MI	3.5	1602
## 30	30	GEORGE AVERY JONES	ON	3.5	1522
## 31	31	RISHI SHETTY	MI	3.5	1494

## 32	32	JOSHUA PHILIP MATHEWS	ON	3.5	1441
## 33	33	JADE GE	MI	3.5	1449
## 34	34	MICHAEL JEFFERY THOMAS	MI	3.5	1399
## 35	35	JOSHUA DAVID LEE	MI	3.5	1438
## 36	36	SIDDHARTH JHA	MI	3.5	1355
## 37	37	AMIYATOSH PWNANANDAM	MI	3.5	980
## 38	38	BRIAN LIU	MI	3.0	1423
## 39	39	JOEL R HENDON	MI	3.0	1436
## 40	40	FOREST ZHANG	MI	3.0	1348
## 41	41	KYLE WILLIAM MURPHY	MI	3.0	1403
## 42	42	JARED GE	MI	3.0	1332
## 43	43	ROBERT GLEN VASEY	MI	3.0	1283
## 44	44	JUSTIN D SCHILLING	MI	3.0	1199
## 45	45	DEREK YAN	MI	3.0	1242
## 46	46	JACOB ALEXANDER LAVALLEY	MI	3.0	377
## 47	47	ERIC WRIGHT	MI	2.5	1362
## 48	48	DANIEL KHAIN	MI	2.5	1382
## 49	49	MICHAEL J MARTIN	MI	2.5	1291
## 50	50	SHIVAM JHA	MI	2.5	1056
## 51	51	TEJAS AYYAGARI	MI	2.5	1011
## 52	52	ETHAN GUO	MI	2.5	935
## 53	53	JOSE C YBARRA	MI	2.0	1393
## 54	54	LARRY HODGE	MI	2.0	1270
## 55	55	ALEX KONG	MI	2.0	1186
## 56	56	MARISA RICCI	MI	2.0	1153
## 57	57	MICHAEL LU	MI	2.0	1092
## 58	58	VIRAJ MOHILE	MI	2.0	917
## 59	59	SEAN M MC	MI	2.0	853
## 60	60	JULIA SHEN	MI	1.5	967
## 61	61	JEZZEL FARKAS	ON	1.5	955
## 62	62	ASHWIN BALAJI	MI	1.0	1530
## 63	63	THOMAS JOSEPH HOSMER	MI	1.0	1175
## 64	64	BEN LI	MI	1.0	1163
##	avg_pre_rating				
## 1	1605				
## 2	1469				
## 3	1564				
## 4	1574				
## 5	1501				
## 6	1519				
## 7	1372				
## 8	1468				
## 9	1523				
## 10	1554				
## 11	1468				
## 12	1506				
## 13	1498				
## 14	1515				
## 15	1484				
## 16	1386				
## 17	1499				
## 18	1480				
## 19	1426				
## 20	1411				

## 21	1470
## 22	1300
## 23	1214
## 24	1357
## 25	1363
## 26	1507
## 27	1222
## 28	1522
## 29	1314
## 30	1144
## 31	1260
## 32	1379
## 33	1277
## 34	1375
## 35	1150
## 36	1388
## 37	1385
## 38	1539
## 39	1430
## 40	1391
## 41	1248
## 42	1150
## 43	1107
## 44	1327
## 45	1152
## 46	1358
## 47	1392
## 48	1356
## 49	1286
## 50	1296
## 51	1356
## 52	1495
## 53	1345
## 54	1206
## 55	1406
## 56	1414
## 57	1363
## 58	1391
## 59	1319
## 60	1330
## 61	1327
## 62	1186
## 63	1350
## 64	1263

Load data to MySQL

```
dbSendQuery(mydb, "SET GLOBAL local_infile = true;")
```

```
## <MySQLResult:71995960,0,2>
```

```
dbWriteTable(conn = mydb, name = 'tournament', value = as.data.frame(tournament_table), overwrite = TRUE)
```

```
## [1] TRUE
```

Query from Mysql DB

```
sql <- "select * from tournament limit 5";  
result <- dbGetQuery(mydb, sql);  
knitr::kable(  
  head(result),  
  caption = "dbGetQuery result set [head]")
```

Table 1: dbGetQuery result set [head]

row_names	ply_id	ply_names	states	total_points	pre_rating	avg_pre_rating
1	1	GARY HUA	ON	6.0	1794	1605
2	2	DAKSHESH DARURI	MI	6.0	1553	1469
3	3	ADITYA BAJAJ	MI	6.0	1384	1564
4	4	PATRICK H SCHILLING	MI	5.5	1716	1574
5	5	HANSHI ZUO	MI	5.5	1655	1501