

```
In [28]: #Load the library  
import pandas as pd
```

```
In [29]: #Reading Juniata Women Soccer stats from website  
jcws=pd.read_html("Juniata_women_soccer.html")  
jcws
```

```

Out[29]: [
0          Schedule Summary          Schedule Summary.1
1          Overall (Pct.)          2-12-4 (.222)
2          Conference (Pct.)          0-6-1 (.071)
3          Streak          Lost 3
4          Home          2-5-2
5          Away          0-7-2
6          Neutral          0-0
7 Full Scores and Schedule » Full Scores and Schedule »,
8 Recent Games Recent Games.1 Recent Games.2
9
0      Oct 8      at Catholic      L, 4-0
1      Oct 12      Susquehanna      L, 4-0
2      Oct 15      Goucher      T, 0-0
3      Oct 22      Drew      L, 2-1
4      Oct 26      Lycoming      L, 2-1
5      Oct 29      at Scranton      L, 3-0,
6          Statistics category Overall Overall.1 Conf Conf.1
7
0          Games      18      18      7      7
1          Shots      106      106      26      26
2          Goals scored      8      8      1      1
3          Shot percentage      .075      .075      .038      .038
4          Shots-per game      5.9      5.9      3.7      3.7
5          Shots on goal      48      48      10      10
6          SOG percentage      .453      .453      .385      .385
7          Assists      8      8      0      0
8          Corner kicks      55      55      15      15
9          Penalty kicks      1-1      1-1      1-1      1-1
10          Yellow cards      5      5      1      1
11          Red cards      0      0      0      0
12          Shutouts      4      4      1      1
13          Home Attendance      1630      1630      882      882
14 Home Attendance average      182      182      221      221,
15 No.          Name      Yr Pos gp gs gpg a/g pts/g sh/g s
16 h% \
17
0      0.0          Julia Lane So. GK 3 3 .00 .00 .00 .00
18 -
19      1      0.0          Cati Besch Sr. GK 8 8 .00 .00 .00 .00
20 -
21      2      2.0          Mia Gianni Fr. NaN 15 3 .00 .00 .00 .00
22 -
23      3      4.0 Ashley McWilliams Jr. D 18 18 .00 .17 .17 .56 .00
24 0
25      4      5.0 Breanne G Spencer Fr. NaN 7 0 .00 .00 .00 .00
26 -
27      5      7.0          Lina Rahman Jr. F 18 7 .00 .00 .00 .11 .00
28 0
29      6      8.0 Daniela Scipioni So. M 18 7 .00 .00 .00 .22 .00
30 0
31      7      9.0          Gillian Dell So. D 14 13 .00 .00 .00 .57 .00
32 0
33      8      10.0          Jordan Groves Fr. NaN 15 1 .00 .00 .00 .07 .00
34 0
35      9      11.0          Amelia Yordy Fr. NaN 18 6 .11 .00 .22 .67 .16
36 7
37      10      12.0          Savanna Murray Fr. NaN 18 5 .06 .00 .11 .61 .09
38 1
39      11      13.0          Brooke Jordan Jr. NaN 12 5 .00 .00 .00 .08 .00
40 0
41      12      14.0          Mariah McDonald Jr. D 15 13 .00 .07 .07 .53 .00
42 0
43      13      15.0          Megan McConnell Jr. D 14 7 .00 .00 .00 .00
44 -
45      14      16.0          Kara Mette Jr. M/D 11 3 .00 .00 .00 .18 .00
46 0
47      15      17.0          Alyssa Bui So. M 18 14 .11 .06 .28 1.06 .10

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5												
16	18.0	Colleen	O'Brien	Sr.	M	18	16	.06	.11	.22	.72	.07
7												
17	19.0	Sydney	Hunsinger	Fr.	NaN	16	5	.00	.00	.00	.00	
-												
18	20.0	Emma	Greggo	So.	F	18	9	.06	.00	.11	.50	.11
1												
19	21.0	Helen	Chavez	Sr.	M	15	12	.07	.07	.20	.33	.20
0												
20	22.0	Lydia	Hiller	Jr.	D	13	11	.00	.00	.00	.08	.00
0												
21	23.0	Emma	Mumau	Jr.	D	1	1	.00	.00	.00	.00	
-												
22	24.0	Alexa	Neiderer	Sr.	D	17	15	.00	.00	.00	.00	
-												
23	30.0	Aleya	Eisenberg	So.	M/D	17	7	.00	.00	.00	.00	
-												
24	32.0	Avery	Zales	Jr.	GK	8	7	.00	.00	.00	.00	
-												
25	42.0	Brooke	Hinkle	So.	GK	-	-	-	-	-	-	
-												
26	56.0	Hayden	Thompson	Sr.	GK	-	-	-	-	-	-	
-												
27	NaN		Totals	NaN	NaN	18	18	.44	.44	1.33	5.89	.07
5												
28	NaN		Opponent	NaN	NaN	18	18	.44	1.17	4.50	13.44	.12
4												

	sog/g	sog%										
0	.00	-										
1	.00	-										
2	.00	-										
3	.11	.200										
4	.00	-										
5	.06	.500										
6	.00	.000										
7	.21	.375										
8	.00	.000										
9	.44	.667										
10	.28	.455										
11	.00	.000										
12	.20	.375										
13	.00	-										
14	.18	1.000										
15	.28	.263										
16	.61	.846										
17	.00	-										
18	.22	.444										
19	.20	.600										
20	.08	1.000										
21	.00	-										
22	.00	-										
23	.00	-										
24	.00	-										
25	-	-										
26	-	-										
27	2.67	.453										
28	7.56	.562										
	No.		Name	Yr	Pos	gp	gs	min/g	ga/g	gaa	sv/g	sv%
0	0.0		Julia Lane	So.	GK	3	3	90:00	1.67	1.67	5.00	.750
1	0.0		Cati Besch	Sr.	GK	8	8	84:22	1.75	1.87	6.00	.774
2	32.0		Avery Zales	Jr.	GK	8	7	84:22	1.38	1.47	5.00	.784
3	42.0		Brooke Hinkle	So.	GK	-	-	0:00	-	-	-	-
4	56.0		Hayden Thompson	Sr.	GK	-	-	0:00	-	-	-	-

5	NaN	Totals	NaN	NaN	18	18	90:00	1.67	1.67	5.72	.774	
6	NaN	Opponent	NaN	NaN	18	18	90:00	.44	0.44	2.17	.830,	
	No.	Name	Yr	Pos	gp	gs	g	a	pts	sh	sh%	sog
0	0.0	Julia Lane	So.	GK	3	3	0	0	0	0	-	0
1	0.0	Cati Besch	Sr.	GK	8	8	0	0	0	0	-	0
2	2.0	Mia Gianni	Fr.	NaN	15	3	0	0	0	0	-	0
3	4.0	Ashley McWilliams	Jr.	D	18	18	0	3	3	10	.000	2
4	5.0	Breanne G Spencer	Fr.	NaN	7	0	0	0	0	0	-	0
5	7.0	Lina Rahman	Jr.	F	18	7	0	0	0	2	.000	1
6	8.0	Daniela Scipioni	So.	M	18	7	0	0	0	4	.000	0
7	9.0	Gillian Dell	So.	D	14	13	0	0	0	8	.000	3
8	10.0	Jordan Groves	Fr.	NaN	15	1	0	0	0	1	.000	0
9	11.0	Amelia Yordy	Fr.	NaN	18	6	2	0	4	12	.167	8
10	12.0	Savanna Murray	Fr.	NaN	18	5	1	0	2	11	.091	5
11	13.0	Brooke Jordan	Jr.	NaN	12	5	0	0	0	1	.000	0
12	14.0	Mariah McDonald	Jr.	D	15	13	0	1	1	8	.000	3
13	15.0	Megan McConnell	Jr.	D	14	7	0	0	0	0	-	0
14	16.0	Kara Mette	Jr.	M/D	11	3	0	0	0	2	.000	2
15	17.0	Alyssa Bui	So.	M	18	14	2	1	5	19	.105	5
16	18.0	Colleen O'Brien	Sr.	M	18	16	1	2	4	13	.077	11
17	19.0	Sydney Hunsinger	Fr.	NaN	16	5	0	0	0	0	-	0
18	20.0	Emma Greggo	So.	F	18	9	1	0	2	9	.111	4
19	21.0	Helen Chavez	Sr.	M	15	12	1	1	3	5	.200	3
20	22.0	Lydia Hiller	Jr.	D	13	11	0	0	0	1	.000	1
21	23.0	Emma Mumau	Jr.	D	1	1	0	0	0	0	-	0
22	24.0	Alexa Neiderer	Sr.	D	17	15	0	0	0	0	-	0
23	30.0	Aleya Eisenberg	So.	M/D	17	7	0	0	0	0	-	0
24	32.0	Avery Zales	Jr.	GK	8	7	0	0	0	0	-	0
25	42.0	Brooke Hinkle	So.	GK	-	-	-	-	0	-	-	-
26	56.0	Hayden Thompson	Sr.	GK	-	-	-	-	0	-	-	-
27	NaN	Totals	NaN	NaN	18	18	8	8	24	106	.075	48
28	NaN	Opponent	NaN	NaN	18	18	30	21	81	242	.124	136

	sog%	yc	rc	pk	gw
0	-	0	0	0-0	0
1	-	0	0	0-0	0
2	-	0	0	0-0	0
3	.200	0	0	0-0	0
4	-	0	0	0-0	0
5	.500	0	0	0-0	0
6	.000	0	0	0-0	0
7	.375	0	0	0-0	0
8	.000	0	0	0-0	0
9	.667	0	0	0-0	2
10	.455	0	0	1-1	0
11	.000	0	0	0-0	0
12	.375	0	0	0-0	0
13	-	1	0	0-0	0
14	1.000	0	0	0-0	0
15	.263	0	0	0-0	0
16	.846	0	0	0-0	0
17	-	0	0	0-0	0
18	.444	0	0	0-0	0
19	.600	0	0	0-0	0
20	1.000	2	0	0-0	0
21	-	0	0	0-0	0
22	-	1	0	0-0	0
23	-	0	0	0-0	0
24	-	0	0	0-0	0
25	-	-	-	0-0	-
26	-	-	-	0-0	-
27	.453	5	0	1-1	2
28	.562	7	0	1-1	12 ,

	No.	Name	Yr	Pos	gp	gs	min	ga	gaa	sv	sv%
\											
0	0.0	Julia Lane	So.	GK	3	3	270:00	5	1.67	15	.750
1	0.0	Cati Besch	Sr.	GK	8	8	675:00	14	1.87	48	.774
2	32.0	Avery Zales	Jr.	GK	8	7	675:00	11	1.47	40	.784
3	42.0	Brooke Hinkle	So.	GK	-	-	0:00	-	-	-	-
4	56.0	Hayden Thompson	Sr.	GK	-	-	0:00	-	-	-	-
5	NaN	Totals	NaN	NaN	18	18	1620:00	30	1.67	103	.774
6	NaN	Opponent	NaN	NaN	18	18	1620:00	8	0.44	39	.830

	wins	losses	ties	shutouts
0	1	1	1	1/0
1	1	7	0	1/0
2	0	4	3	2/0
3	-	-	-	0/0
4	-	-	-	0/0
5	2	12	4	4
6	12	2	4	12

	No.	Name	Yr	Pos	gp	gs	gpg	a/g	pts/g	sh/g	sh%
\											
0	0.0	Julia Lane	So.	GK	1	1	.00	.00	.00	.00	-
1	0.0	Cati Besch	Sr.	GK	3	3	.00	.00	.00	.00	-
2	2.0	Mia Gianni	Fr.	NaN	6	1	.00	.00	.00	.00	-
3	4.0	Ashley McWilliams	Jr.	D	7	7	.00	.00	.00	.57	.000
4	5.0	Breanne G Spencer	Fr.	NaN	3	0	.00	.00	.00	.00	-
5	7.0	Lina Rahman	Jr.	F	7	2	.00	.00	.00	.00	-
6	8.0	Daniela Scipioni	So.	M	7	2	.00	.00	.00	.00	-
7	9.0	Gillian Dell	So.	D	4	4	.00	.00	.00	.75	.000
8	10.0	Jordan Groves	Fr.	NaN	7	0	.00	.00	.00	.00	-
9	11.0	Amelia Yordy	Fr.	NaN	7	4	.00	.00	.00	.29	.000
10	12.0	Savanna Murray	Fr.	NaN	7	3	.14	.00	.29	.71	.200
11	13.0	Brooke Jordan	Jr.	NaN	3	1	.00	.00	.00	.00	-
12	14.0	Mariah McDonald	Jr.	D	7	7	.00	.00	.00	.29	.000
13	15.0	Megan McConnell	Jr.	D	6	2	.00	.00	.00	.00	-
14	16.0	Kara Mette	Jr.	M/D	4	0	.00	.00	.00	.00	-
15	17.0	Alyssa Bui	So.	M	7	7	.00	.00	.00	1.14	.000
16	18.0	Colleen O'Brien	Sr.	M	7	6	.00	.00	.00	.29	.000
17	19.0	Sydney Hunsinger	Fr.	NaN	6	1	.00	.00	.00	.00	-
18	20.0	Emma Greggo	So.	F	7	4	.00	.00	.00	.00	-
19	21.0	Helen Chavez	Sr.	M	6	6	.00	.00	.00	.00	-
20	22.0	Lydia Hiller	Jr.	D	5	5	.00	.00	.00	.00	-
21	23.0	Emma Mumau	Jr.	D	1	1	.00	.00	.00	.00	-
22	24.0	Alexa Neiderer	Sr.	D	7	6	.00	.00	.00	.00	-
23	30.0	Aleya Eisenberg	So.	M/D	7	0	.00	.00	.00	.00	-
24	32.0	Avery Zales	Jr.	GK	3	3	.00	.00	.00	.00	-
25	42.0	Brooke Hinkle	So.	GK	-	-	-	-	-	-	-
26	56.0	Hayden Thompson	Sr.	GK	-	-	-	-	-	-	-
27	NaN	Totals	NaN	NaN	7	7	.14	.00	.29	3.71	.038
28	NaN	Opponent	NaN	NaN	7	7	.14	1.43	6.29	17.29	.140

	sog/g	sog%
0	.00	-
1	.00	-
2	.00	-
3	.29	.500
4	.00	-
5	.00	-
6	.00	-
7	.25	.333
8	.00	-
9	.00	.000
10	.43	.600
11	.00	-
12	.14	.500

	sog%	yc	rc	pk	gw
0	-	0	0	0-0	0
1	-	0	0	0-0	0
2	-	0	0	0-0	0
3	.500	0	0	0-0	0
4	-	0	0	0-0	0
5	-	0	0	0-0	0
6	-	0	0	0-0	0
7	.333	0	0	0-0	0

8	-	0	0	0-0	0
9	.000	0	0	0-0	0
10	.600	0	0	1-1	0
11	-	0	0	0-0	0
12	.500	0	0	0-0	0
13	-	0	0	0-0	0
14	-	0	0	0-0	0
15	.250	0	0	0-0	0
16	.500	0	0	0-0	0
17	-	0	0	0-0	0
18	-	0	0	0-0	0
19	-	0	0	0-0	0
20	-	1	0	0-0	0
21	-	0	0	0-0	0
22	-	0	0	0-0	0
23	-	0	0	0-0	0
24	-	0	0	0-0	0
25	-	-	-	0-0	-
26	-	-	-	0-0	-
27	.385	1	0	1-1	0
28	.545	3	0	1-1	6 ,

\	No.	Name	Yr	Pos	gp	gs	min	ga	gaa	sv	sv%	wins
0	0.0	Julia Lane	So.	GK	1	1	90:00	4	4.00	8	.667	0
1	0.0	Cati Besch	Sr.	GK	3	3	270:00	9	3.00	23	.719	0
2	32.0	Avery Zales	Jr.	GK	3	3	270:00	4	1.33	17	.810	0
3	42.0	Brooke Hinkle	So.	GK	-	-	0:00	-	-	-	-	-
4	56.0	Hayden Thompson	Sr.	GK	-	-	0:00	-	-	-	-	-
5	NaN	Totals	NaN	NaN	7	7	630:00	17	2.43	48	.738	0
6	NaN	Opponent	NaN	NaN	7	7	630:00	1	0.14	9	.900	6

	losses	ties	shutouts
0	1	0	0/0
1	3	0	0/0
2	2	1	1/0
3	–	–	0/0
4	–	–	0/0
5	6	1	1
6	0	1	6 ,

Date	Opponent	Score	a	sh	sh%	sv	ck	yc	rc
0 Sep 1	Chatham	L, 2-1	1	8	.125	3	7	0	0
1 Sep 3	at Westminster (Pa.)	L, 2-0	0	5	.000	8	3	0	0
2 Sep 4	Penn St.-Altoona	T, 0-0	0	5	.000	6	4	0	0
3 Sep 7	at Albright	T, 2-2	3	6	.333	3	5	1	0
4 Sep 10	at Cabrini	L, 1-0	0	3	.000	8	1	1	0
5 Sep 14	at King's (Pa.)	L, 2-0	0	3	.000	5	2	0	0
6 Sep 17	at Hood	L, 1-0	0	5	.000	3	3	1	0
7 Sep 20	Pitt.-Bradford	W, 2-1	2	28	.071	3	6	0	0
8 Sep 24	Moravian	L, 1-0	0	7	.000	4	6	0	0
9 Sep 28	Penn College	W, 1-0	1	13	.077	4	4	1	0
10 Oct 1	at Elizabethtown	L, 3-0	0	3	.000	11	3	0	0
11 Oct 5	at Pitt.-Greensburg	T, 0-0	0	1	.000	4	1	0	0
12 Oct 8	at Catholic	L, 4-0	0	2	.000	6	2	0	0
13 Oct 12	Susquehanna	L, 4-0	0	5	.000	8	1	0	0
14 Oct 15	Goucher	T, 0-0	0	4	.000	2	2	0	0
15 Oct 22	Drew	L, 2-1	0	5	.200	10	1	1	0
16 Oct 26	Lycoming	L, 2-1	1	3	.333	8	4	0	0
17 Oct 29	at Scranton	L, 3-0	0	0	-	7	0	0	0,

Unnamed:	0	gp	sh	g	gfa	a	pts	ga	gaa	sh%	shpg	ck	sv	so	y
0	Total	18	106	8	0.44	8	24	30	1.67	.075	5.9	55	103	4	
5															
1	Conference	7	26	1	0.14	0	2	17	2.43	.038	3.7	15	48	1	
1															

2	Exhibition	-	-	-	0.00	-	0	-	-	-	0.0	-	-	-
-														
3	NaN	-	-	-	-	-	-	-	-	-	-	-	-	-
-														
4	Home	9	78	6	0.67	5	17	12	1.33	.077	8.7	35	48	3
2														
5	Away	9	28	2	0.22	3	7	18	2.00	.071	3.1	20	55	1
3														
6	Neutral	-	-	-	0.00	-	0	-	-	-	0.0	-	-	-
-														
7	NaN	-	-	-	-	-	-	-	-	-	-	-	-	-
-														
8	Wins	2	41	3	1.50	3	9	1	0.50	.073	20.5	10	7	1
1														
9	Losses	12	49	3	0.25	2	8	27	2.25	.061	4.1	33	81	0
3														
10	NaN	-	-	-	-	-	-	-	-	-	-	-	-	-
-														
11	September	10	83	6	0.60	7	19	12	1.20	.072	8.3	41	47	2
4														
12	October	8	23	2	0.25	1	5	18	2.25	.087	2.9	14	56	2
1														

rc	
0	0
1	0
2	-
3	-
4	0
5	0
6	-
7	-
8	0
9	0
10	-
11	0
12	0 ,
Date	
0	Sep 1
1	Sep 3 at Westminster (Pa.)
2	Sep 4 Penn St.-Altoona
3	Sep 7 at Albright
4	Sep 10 at Cabrini
5	Sep 14 at King's (Pa.)
6	Sep 17 at Hood
7	Sep 20 Pitt.-Bradford
8	Sep 24 Moravian
9	Sep 28 Penn College
10	Oct 1 at Elizabethtown
11	Oct 5 at Pitt.-Greensburg
12	Oct 8 at Catholic
13	Oct 12 Susquehanna
14	Oct 15 Goucher
15	Oct 22 Drew
16	Oct 26 Lycoming
17	Oct 29 at Scranton
Score	
L, 2-1	
L, 2-0	
T, 0-0	
T, 2-2	
L, 1-0	
L, 2-0	
L, 1-0	
W, 2-1	
L, 1-0	
W, 1-0	
L, 3-0	
T, 0-0	
L, 4-0	
L, 4-0	
T, 0-0	
L, 2-1	
L, 2-1	
L, 3-0	
Attend	
120	
111	
134	
76	
92	
100	
150	
178	
257	
215	
110	
103	
155	
197	
179	
249	
101	
317]	

```
In [30]: #summary=jcws[0]
#summary
#result=jcws[1]
#result
#stats=jcws[2]
#stats
#player=jcws[3]
```



```
#player
#GK=jcws[4]
#GK
#player_repeat=jcws[5]
#table
#gk_repeat=jcws[6]
#table
#player_repeat=jcws[7]
#table
#gk_repeat=jcws[8]
#table
#player_repeat=jcws[9]
#table
#gk_repeat=jcws[10]
#table
#games=jcws[11]
#games
#split_stats=jcws[12]
#split_stats
#attendance=jcws[13]
#attendance
```

```
In [31]: #Pick two of the longer tables, one by player and one by match/game to compl
player=jcws[3]
player
```

Out [31]:

	No.	Name	Yr	Pos	gp	gs	gpg	a/g	pts/g	sh/g	sh%	sog/g	sog%
0	0.0	Julia Lane	So.	GK	3	3	.00	.00	.00	.00	-	.00	-
1	0.0	Cati Besch	Sr.	GK	8	8	.00	.00	.00	.00	-	.00	-
2	2.0	Mia Gianni	Fr.	NaN	15	3	.00	.00	.00	.00	-	.00	-
3	4.0	Ashley McWilliams	Jr.	D	18	18	.00	.17	.17	.56	.000	.11	.200
4	5.0	Breanne G Spencer	Fr.	NaN	7	0	.00	.00	.00	.00	-	.00	-
5	7.0	Lina Rahman	Jr.	F	18	7	.00	.00	.00	.11	.000	.06	.500
6	8.0	Daniela Scipioni	So.	M	18	7	.00	.00	.00	.22	.000	.00	.000
7	9.0	Gillian Dell	So.	D	14	13	.00	.00	.00	.57	.000	.21	.375
8	10.0	Jordan Groves	Fr.	NaN	15	1	.00	.00	.00	.07	.000	.00	.000
9	11.0	Amelia Yordy	Fr.	NaN	18	6	.11	.00	.22	.67	.167	.44	.667
10	12.0	Savanna Murray	Fr.	NaN	18	5	.06	.00	.11	.61	.091	.28	.455
11	13.0	Brooke Jordan	Jr.	NaN	12	5	.00	.00	.00	.08	.000	.00	.000
12	14.0	Mariah McDonald	Jr.	D	15	13	.00	.07	.07	.53	.000	.20	.375
13	15.0	Megan McConnell	Jr.	D	14	7	.00	.00	.00	.00	-	.00	-
14	16.0	Kara Mette	Jr.	M/D	11	3	.00	.00	.00	.18	.000	.18	1.000
15	17.0	Alyssa Bui	So.	M	18	14	.11	.06	.28	1.06	.105	.28	.263
16	18.0	Colleen O'Brien	Sr.	M	18	16	.06	.11	.22	.72	.077	.61	.846
17	19.0	Sydney Hunsinger	Fr.	NaN	16	5	.00	.00	.00	.00	-	.00	-
18	20.0	Emma Greggo	So.	F	18	9	.06	.00	.11	.50	.111	.22	.444
19	21.0	Helen Chavez	Sr.	M	15	12	.07	.07	.20	.33	.200	.20	.600
20	22.0	Lydia Hiller	Jr.	D	13	11	.00	.00	.00	.08	.000	.08	1.000
21	23.0	Emma Mumau	Jr.	D	1	1	.00	.00	.00	.00	-	.00	-
22	24.0	Alexa Neiderer	Sr.	D	17	15	.00	.00	.00	.00	-	.00	-
23	30.0	Aleya Eisenberg	So.	M/D	17	7	.00	.00	.00	.00	-	.00	-
24	32.0	Avery Zales	Jr.	GK	8	7	.00	.00	.00	.00	-	.00	-
25	42.0	Brooke Hinkle	So.	GK	-	-	-	-	-	-	-	-	-
26	56.0	Hayden Thompson	Sr.	GK	-	-	-	-	-	-	-	-	-
27	NaN	Totals	NaN	NaN	18	18	.44	.44	1.33	5.89	.075	2.67	.453
28	NaN	Opponent	NaN	NaN	18	18	.44	1.17	4.50	13.44	.124	7.56	.562

In [32]:

```
games=jcws[11]
games
```

Out [32]:

	Date	Opponent	Score	a	sh	sh%	sv	ck	yc	rc
0	Sep 1	Chatham	L, 2-1	1	8	.125	3	7	0	0
1	Sep 3	at Westminster (Pa.)	L, 2-0	0	5	.000	8	3	0	0
2	Sep 4	Penn St.-Altoona	T, 0-0	0	5	.000	6	4	0	0
3	Sep 7	at Albright	T, 2-2	3	6	.333	3	5	1	0
4	Sep 10	at Cabrini	L, 1-0	0	3	.000	8	1	1	0
5	Sep 14	at King's (Pa.)	L, 2-0	0	3	.000	5	2	0	0
6	Sep 17	at Hood	L, 1-0	0	5	.000	3	3	1	0
7	Sep 20	Pitt.-Bradford	W, 2-1	2	28	.071	3	6	0	0
8	Sep 24	Moravian	L, 1-0	0	7	.000	4	6	0	0
9	Sep 28	Penn College	W, 1-0	1	13	.077	4	4	1	0
10	Oct 1	at Elizabethtown	L, 3-0	0	3	.000	11	3	0	0
11	Oct 5	at Pitt.-Greensburg	T, 0-0	0	1	.000	4	1	0	0
12	Oct 8	at Catholic	L, 4-0	0	2	.000	6	2	0	0
13	Oct 12	Susquehanna	L, 4-0	0	5	.000	8	1	0	0
14	Oct 15	Goucher	T, 0-0	0	4	.000	2	2	0	0
15	Oct 22	Drew	L, 2-1	0	5	.200	10	1	1	0
16	Oct 26	Lycoming	L, 2-1	1	3	.333	8	4	0	0
17	Oct 29	at Scranton	L, 3-0	0	0	-	7	0	0	0

In [33]:

```
#Changing index to Date
games.index=games.Date
games
```

Out [33]:

	Date	Opponent	Score	a	sh	sh%	sv	ck	yc	rc
	Date									
Sep 1	Sep 1	Chatham	L, 2-1	1	8	.125	3	7	0	0
Sep 3	Sep 3	at Westminster (Pa.)	L, 2-0	0	5	.000	8	3	0	0
Sep 4	Sep 4	Penn St.-Altoona	T, 0-0	0	5	.000	6	4	0	0
Sep 7	Sep 7	at Albright	T, 2-2	3	6	.333	3	5	1	0
Sep 10	Sep 10	at Cabrini	L, 1-0	0	3	.000	8	1	1	0
Sep 14	Sep 14	at King's (Pa.)	L, 2-0	0	3	.000	5	2	0	0
Sep 17	Sep 17	at Hood	L, 1-0	0	5	.000	3	3	1	0
Sep 20	Sep 20	Pitt.-Bradford	W, 2-1	2	28	.071	3	6	0	0
Sep 24	Sep 24	Moravian	L, 1-0	0	7	.000	4	6	0	0
Sep 28	Sep 28	Penn College	W, 1-0	1	13	.077	4	4	1	0
Oct 1	Oct 1	at Elizabethtown	L, 3-0	0	3	.000	11	3	0	0
Oct 5	Oct 5	at Pitt.-Greensburg	T, 0-0	0	1	.000	4	1	0	0
Oct 8	Oct 8	at Catholic	L, 4-0	0	2	.000	6	2	0	0
Oct 12	Oct 12	Susquehanna	L, 4-0	0	5	.000	8	1	0	0
Oct 15	Oct 15	Goucher	T, 0-0	0	4	.000	2	2	0	0
Oct 22	Oct 22	Drew	L, 2-1	0	5	.200	10	1	1	0
Oct 26	Oct 26	Lycoming	L, 2-1	1	3	.333	8	4	0	0
Oct 29	Oct 29	at Scranton	L, 3-0	0	0	-	7	0	0	0

In [34]:

```
#Dropping Date column
games=games.drop(columns=["Date"])
games
```

Out [34]:

	Opponent	Score	a	sh	sh%	sv	ck	yc	rc
Date									
Sep 1	Chatham	L, 2-1	1	8	.125	3	7	0	0
Sep 3	at Westminster (Pa.)	L, 2-0	0	5	.000	8	3	0	0
Sep 4	Penn St.-Altoona	T, 0-0	0	5	.000	6	4	0	0
Sep 7	at Albright	T, 2-2	3	6	.333	3	5	1	0
Sep 10	at Cabrini	L, 1-0	0	3	.000	8	1	1	0
Sep 14	at King's (Pa.)	L, 2-0	0	3	.000	5	2	0	0
Sep 17	at Hood	L, 1-0	0	5	.000	3	3	1	0
Sep 20	Pitt.-Bradford	W, 2-1	2	28	.071	3	6	0	0
Sep 24	Moravian	L, 1-0	0	7	.000	4	6	0	0
Sep 28	Penn College	W, 1-0	1	13	.077	4	4	1	0
Oct 1	at Elizabethtown	L, 3-0	0	3	.000	11	3	0	0
Oct 5	at Pitt.-Greensburg	T, 0-0	0	1	.000	4	1	0	0
Oct 8	at Catholic	L, 4-0	0	2	.000	6	2	0	0
Oct 12	Susquehanna	L, 4-0	0	5	.000	8	1	0	0
Oct 15	Goucher	T, 0-0	0	4	.000	2	2	0	0
Oct 22	Drew	L, 2-1	0	5	.200	10	1	1	0
Oct 26	Lycoming	L, 2-1	1	3	.333	8	4	0	0
Oct 29	at Scranton	L, 3-0	0	0	-	7	0	0	0

```
In [35]: #Renaming all variables to be descriptive.
games=games.rename(columns={"a": "Assists", "sh": "Shoot", "sh%": "Shoot percent", "sv": "Saves", "ck": "Blocked Shots", "yc": "Yellow Cards", "rc": "Red Cards"})
games
```

Out [35]:

	Opponent	Score	Assists	Shoot	Shoot percentage	Save	Corner kick	Yellow card	Red card
Date									
Sep 1	Chatham	L, 2-1	1	8	.125	3	7	0	0
Sep 3	at Westminster (Pa.)	L, 2-0	0	5	.000	8	3	0	0
Sep 4	Penn St.- Altoona	T, 0-0	0	5	.000	6	4	0	0
Sep 7	at Albright	T, 2-2	3	6	.333	3	5	1	0
Sep 10	at Cabrini	L, 1-0	0	3	.000	8	1	1	0
Sep 14	at King's (Pa.)	L, 2-0	0	3	.000	5	2	0	0
Sep 17	at Hood	L, 1-0	0	5	.000	3	3	1	0
Sep 20	Pitt.-Bradford	W, 2-1	2	28	.071	3	6	0	0
Sep 24	Moravian	L, 1-0	0	7	.000	4	6	0	0
Sep 28	Penn College	W, 1-0	1	13	.077	4	4	1	0
Oct 1	at Elizabethtown	L, 3-0	0	3	.000	11	3	0	0
Oct 5	at Pitt.- Greensburg	T, 0-0	0	1	.000	4	1	0	0
Oct 8	at Catholic	L, 4-0	0	2	.000	6	2	0	0
Oct 12	Susquehanna	L, 4-0	0	5	.000	8	1	0	0
Oct 15	Goucher	T, 0-0	0	4	.000	2	2	0	0
Oct 22	Drew	L, 2-1	0	5	.200	10	1	1	0
Oct 26	Lycoming	L, 2-1	1	3	.333	8	4	0	0
Oct 29	at Scranton	L, 3-0	0	0	-	7	0	0	0

In [36]: `#Replacing - as NaN.
import numpy as np
games=games.replace("-", np.nan)
games`

Out [36]:

Date	Opponent	Score	Assists	Shoot	Shoot percentage	Save	Corner kick	Yellow card	Red card
Sep 1	Chatham	L, 2-1	1	8	.125	3	7	0	0
Sep 3	at Westminster (Pa.)	L, 2-0	0	5	.000	8	3	0	0
Sep 4	Penn St.- Altoona	T, 0-0	0	5	.000	6	4	0	0
Sep 7	at Albright	T, 2-2	3	6	.333	3	5	1	0
Sep 10	at Cabrini	L, 1-0	0	3	.000	8	1	1	0
Sep 14	at King's (Pa.)	L, 2-0	0	3	.000	5	2	0	0
Sep 17	at Hood	L, 1-0	0	5	.000	3	3	1	0
Sep 20	Pitt.-Bradford	W, 2-1	2	28	.071	3	6	0	0
Sep 24	Moravian	L, 1-0	0	7	.000	4	6	0	0
Sep 28	Penn College	W, 1-0	1	13	.077	4	4	1	0
Oct 1	at Elizabethtown	L, 3-0	0	3	.000	11	3	0	0
Oct 5	at Pitt.- Greensburg	T, 0-0	0	1	.000	4	1	0	0
Oct 8	at Catholic	L, 4-0	0	2	.000	6	2	0	0
Oct 12	Susquehanna	L, 4-0	0	5	.000	8	1	0	0
Oct 15	Goucher	T, 0-0	0	4	.000	2	2	0	0
Oct 22	Drew	L, 2-1	0	5	.200	10	1	1	0
Oct 26	Lycoming	L, 2-1	1	3	.333	8	4	0	0
Oct 29	at Scranton	L, 3-0	0	0	NaN	7	0	0	0

```
In [37]: #Summary statistics of the games table.
gm=games.describe(include="all")
gm
```

Out [37]:

	Opponent	Score	Assists	Shoot	Shoot percentage	Save	Corner kick	Yellow cards
count	18	18	18.000000	18.000000	17	18.000000	18.000000	18.0000
unique	18	9	NaN	NaN	6	NaN	NaN	NaN
top	Chatham	L, 2-1	NaN	NaN	.000	NaN	NaN	NaN
freq	1	3	NaN	NaN	11	NaN	NaN	NaN
mean	NaN	NaN	0.444444	5.888889	NaN	5.722222	3.055556	0.2777
std	NaN	NaN	0.855585	6.229804	NaN	2.674620	2.013841	0.4608
min	NaN	NaN	0.000000	0.000000	NaN	2.000000	0.000000	0.0000
25%	NaN	NaN	0.000000	3.000000	NaN	3.250000	1.250000	0.0000
50%	NaN	NaN	0.000000	5.000000	NaN	5.500000	3.000000	0.0000
75%	NaN	NaN	0.750000	5.750000	NaN	8.000000	4.000000	0.7500
max	NaN	NaN	3.000000	28.000000	NaN	11.000000	7.000000	1.0000

In [38]:

```
#Summary statistics of the games table.  
gm.Opponent.value_counts()
```

Out [38]:

182

Chatham1

11

Name: Opponent, dtype: int64

In [39]:

```
#Exporting dataframe ot csv  
games.to_csv("games.csv")
```

Original Dataset

- Date- Data of games
- Opponents- Other teams played with. Some information where Juniata played
- Score- Score records. Winning score first
- a- Assists. How many assists were there
- sh- Shoots. Total shoot by Juniata players
- sh%- Shoot percentage. Proportion of how many scores with total shoots
- sv- Saves. Times goal keeper saved score
- ck- Corner kick. How many corner kicks are there
- yc- Yeloow card. How many yellow cards were given in the game
- rc- Red card. How many red cards were given in the game

Cleaned Dataset

Date- Date of games

Opponents- Other teams played with. Some information where Juniata played

Assists- How many assists were there

Shoots- Total shoot by Juniata players

Shoot percentage- Proportion of how many scores with total shoots

Save- Times goal keeper saved score

Corner kick- How many corner kicks are there

Yellow card- How many yellow cards were given in the game

Red card- How many red cards were given in the game

Make a description for your pretend non-technical boss on what you have done and where you are in the data importation process

We have looked up the Juniata women's soccer team(JCWS) statistics, and chose two tables that describes players and games. Players table shows the summary of players data such as position, game appeared, or goals. For the games table, it tells the detail of the game JCWS played against other teams. Some variables are shortened, and it was hard to understand the meanings of the data. Instead, we have renamed the variables to make easy to read the record. After that, we see some values are not number, so we made the value as NaN(Not a Number). We showed the summary statistics so that we can make an analysis using those data in the future.

Make a description for your data scientist colleague on what you have done and where you are in the data importation process

We have looked up the Juniata women's soccer team(JCWS) statistics, and chose two tables that describes players and games. Players table shows the summary of players data such as position, game appeared, or goals. For the games table, it tells the detail of the game JCWS played against other teams. First, we renamed the index as players and date using .index function so that we can see the which players and date easily. The variables that describes the data were abbreviated so we use .rename function to change the actual names in the dataframe. Some values are categorised as '-', so we used .replace function and numpy.nan to fill all '-' to transform NaN. After that, we looked at the summary statistics using .describe so that we can do an analysis of the JCWS players and how the games went.

In []: