

# pandas2

March 29, 2019

```
In [1]: import numpy as np
import pandas as pd
titanic = pd.read_csv("titanic.csv", dtype={"Age": np.float64} )
```

```
In [2]: titanic.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 891 entries, 0 to 890
Data columns (total 12 columns):
PassengerId      891 non-null int64
Survived         891 non-null int64
Pclass           891 non-null int64
Name             891 non-null object
Sex              891 non-null object
Age              714 non-null float64
SibSp            891 non-null int64
Parch            891 non-null int64
Ticket           891 non-null object
Fare             891 non-null float64
Cabin            204 non-null object
Embarked         889 non-null object
dtypes: float64(2), int64(5), object(5)
memory usage: 83.6+ KB
```

```
In [3]: titanic
```

```
Out[3]:
```

	PassengerId	Survived	Pclass	\
0	1	0	3	
1	2	1	1	
2	3	1	3	
3	4	1	1	
4	5	0	3	
5	6	0	3	
6	7	0	1	
7	8	0	3	
8	9	1	3	
9	10	1	2	

10	11	1	3
11	12	1	1
12	13	0	3
13	14	0	3
14	15	0	3
15	16	1	2
16	17	0	3
17	18	1	2
18	19	0	3
19	20	1	3
20	21	0	2
21	22	1	2
22	23	1	3
23	24	1	1
24	25	0	3
25	26	1	3
26	27	0	3
27	28	0	1
28	29	1	3
29	30	0	3
..	...	...	...
861	862	0	2
862	863	1	1
863	864	0	3
864	865	0	2
865	866	1	2
866	867	1	2
867	868	0	1
868	869	0	3
869	870	1	3
870	871	0	3
871	872	1	1
872	873	0	1
873	874	0	3
874	875	1	2
875	876	1	3
876	877	0	3
877	878	0	3
878	879	0	3
879	880	1	1
880	881	1	2
881	882	0	3
882	883	0	3
883	884	0	2
884	885	0	3
885	886	0	3
886	887	0	2
887	888	1	1

888	889	0	3
889	890	1	1
890	891	0	3

	Name	Sex	Age	SibSp	\
0	Braund, Mr. Owen Harris	male	22.0	1	
1	Cumings, Mrs. John Bradley (Florence Briggs Th...	female	38.0	1	
2	Heikkinen, Miss. Laina	female	26.0	0	
3	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	1	
4	Allen, Mr. William Henry	male	35.0	0	
5	Moran, Mr. James	male	NaN	0	
6	McCarthy, Mr. Timothy J	male	54.0	0	
7	Palsson, Master. Gosta Leonard	male	2.0	3	
8	Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg)	female	27.0	0	
9	Nasser, Mrs. Nicholas (Adele Achem)	female	14.0	1	
10	Sandstrom, Miss. Marguerite Rut	female	4.0	1	
11	Bonnell, Miss. Elizabeth	female	58.0	0	
12	Saunderscock, Mr. William Henry	male	20.0	0	
13	Andersson, Mr. Anders Johan	male	39.0	1	
14	Vestrom, Miss. Hulda Amanda Adolfina	female	14.0	0	
15	Hewlett, Mrs. (Mary D Kingcome)	female	55.0	0	
16	Rice, Master. Eugene	male	2.0	4	
17	Williams, Mr. Charles Eugene	male	NaN	0	
18	Vander Planke, Mrs. Julius (Emelia Maria Vande...	female	31.0	1	
19	Masselmani, Mrs. Fatima	female	NaN	0	
20	Fynney, Mr. Joseph J	male	35.0	0	
21	Beesley, Mr. Lawrence	male	34.0	0	
22	McGowan, Miss. Anna "Annie"	female	15.0	0	
23	Sloper, Mr. William Thompson	male	28.0	0	
24	Palsson, Miss. Torborg Danira	female	8.0	3	
25	Asplund, Mrs. Carl Oscar (Selma Augusta Emilia...	female	38.0	1	
26	Emir, Mr. Farred Chehab	male	NaN	0	
27	Fortune, Mr. Charles Alexander	male	19.0	3	
28	O'Dwyer, Miss. Ellen "Nellie"	female	NaN	0	
29	Todoroff, Mr. Lalio	male	NaN	0	
..	...	...	...	...	
861	Giles, Mr. Frederick Edward	male	21.0	1	
862	Swift, Mrs. Frederick Joel (Margaret Welles Ba...	female	48.0	0	
863	Sage, Miss. Dorothy Edith "Dolly"	female	NaN	8	
864	Gill, Mr. John William	male	24.0	0	
865	Bystrom, Mrs. (Karolina)	female	42.0	0	
866	Duran y More, Miss. Asuncion	female	27.0	1	
867	Roebeling, Mr. Washington Augustus II	male	31.0	0	
868	van Melkebeke, Mr. Philemon	male	NaN	0	
869	Johnson, Master. Harold Theodor	male	4.0	1	
870	Balkic, Mr. Cerin	male	26.0	0	
871	Beckwith, Mrs. Richard Leonard (Sallie Monypeny)	female	47.0	1	
872	Carlsson, Mr. Frans Olof	male	33.0	0	

873	Vander Cruyssen, Mr. Victor	male	47.0	0
874	Abelson, Mrs. Samuel (Hannah Wizosky)	female	28.0	1
875	Najib, Miss. Adele Kiamie "Jane"	female	15.0	0
876	Gustafsson, Mr. Alfred Ossian	male	20.0	0
877	Petroff, Mr. Nedelio	male	19.0	0
878	Laleff, Mr. Kristo	male	NaN	0
879	Potter, Mrs. Thomas Jr (Lily Alexenia Wilson)	female	56.0	0
880	Shelley, Mrs. William (Imanita Parrish Hall)	female	25.0	0
881	Markun, Mr. Johann	male	33.0	0
882	Dahlberg, Miss. Gerda Ulrika	female	22.0	0
883	Banfield, Mr. Frederick James	male	28.0	0
884	Sutehall, Mr. Henry Jr	male	25.0	0
885	Rice, Mrs. William (Margaret Norton)	female	39.0	0
886	Montvila, Rev. Juozas	male	27.0	0
887	Graham, Miss. Margaret Edith	female	19.0	0
888	Johnston, Miss. Catherine Helen "Carrie"	female	NaN	1
889	Behr, Mr. Karl Howell	male	26.0	0
890	Dooley, Mr. Patrick	male	32.0	0

	Parch	Ticket	Fare	Cabin	Embarked
0	0	A/5 21171	7.2500	NaN	S
1	0	PC 17599	71.2833	C85	C
2	0	STON/O2. 3101282	7.9250	NaN	S
3	0	113803	53.1000	C123	S
4	0	373450	8.0500	NaN	S
5	0	330877	8.4583	NaN	Q
6	0	17463	51.8625	E46	S
7	1	349909	21.0750	NaN	S
8	2	347742	11.1333	NaN	S
9	0	237736	30.0708	NaN	C
10	1	PP 9549	16.7000	G6	S
11	0	113783	26.5500	C103	S
12	0	A/5. 2151	8.0500	NaN	S
13	5	347082	31.2750	NaN	S
14	0	350406	7.8542	NaN	S
15	0	248706	16.0000	NaN	S
16	1	382652	29.1250	NaN	Q
17	0	244373	13.0000	NaN	S
18	0	345763	18.0000	NaN	S
19	0	2649	7.2250	NaN	C
20	0	239865	26.0000	NaN	S
21	0	248698	13.0000	D56	S
22	0	330923	8.0292	NaN	Q
23	0	113788	35.5000	A6	S
24	1	349909	21.0750	NaN	S
25	5	347077	31.3875	NaN	S
26	0	2631	7.2250	NaN	C
27	2	19950	263.0000	C23 C25 C27	S

28	0	330959	7.8792	NaN	Q
29	0	349216	7.8958	NaN	S
..	...	...	...	...	...
861	0	28134	11.5000	NaN	S
862	0	17466	25.9292	D17	S
863	2	CA. 2343	69.5500	NaN	S
864	0	233866	13.0000	NaN	S
865	0	236852	13.0000	NaN	S
866	0	SC/PARIS 2149	13.8583	NaN	C
867	0	PC 17590	50.4958	A24	S
868	0	345777	9.5000	NaN	S
869	1	347742	11.1333	NaN	S
870	0	349248	7.8958	NaN	S
871	1	11751	52.5542	D35	S
872	0	695	5.0000	B51 B53 B55	S
873	0	345765	9.0000	NaN	S
874	0	P/PP 3381	24.0000	NaN	C
875	0	2667	7.2250	NaN	C
876	0	7534	9.8458	NaN	S
877	0	349212	7.8958	NaN	S
878	0	349217	7.8958	NaN	S
879	1	11767	83.1583	C50	C
880	1	230433	26.0000	NaN	S
881	0	349257	7.8958	NaN	S
882	0	7552	10.5167	NaN	S
883	0	C.A./SOTON 34068	10.5000	NaN	S
884	0	SOTON/OQ 392076	7.0500	NaN	S
885	5	382652	29.1250	NaN	Q
886	0	211536	13.0000	NaN	S
887	0	112053	30.0000	B42	S
888	2	W./C. 6607	23.4500	NaN	S
889	0	111369	30.0000	C148	C
890	0	370376	7.7500	NaN	Q

[891 rows x 12 columns]

In [4]: titanic.iloc[0:5,:]

```
Out[4]:   PassengerId  Survived  Pclass  \
0           1         0         3
1           2         1         1
2           3         1         3
3           4         1         1
4           5         0         3
```

	Name	Sex	Age	SibSp	\
0	Braund, Mr. Owen Harris	male	22.0	1	
1	Cumings, Mrs. John Bradley (Florence Briggs Th...	female	38.0	1	

2		Heikkinen, Miss. Laina	female	26.0	0
3		Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	1
4		Allen, Mr. William Henry	male	35.0	0

	Parch	Ticket	Fare	Cabin	Embarked
0	0	A/5 21171	7.2500	NaN	S
1	0	PC 17599	71.2833	C85	C
2	0	STON/O2. 3101282	7.9250	NaN	S
3	0	113803	53.1000	C123	S
4	0	373450	8.0500	NaN	S

```
In [5]: titanic.loc[:,["Name","Age","Survived"]]
```

```
Out[5]:
```

		Name	Age	Survived
0		Braund, Mr. Owen Harris	22.0	0
1		Cumings, Mrs. John Bradley (Florence Briggs Th...	38.0	1
2		Heikkinen, Miss. Laina	26.0	1
3		Futrelle, Mrs. Jacques Heath (Lily May Peel)	35.0	1
4		Allen, Mr. William Henry	35.0	0
5		Moran, Mr. James	NaN	0
6		McCarthy, Mr. Timothy J	54.0	0
7		Palsson, Master. Gosta Leonard	2.0	0
8		Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg)	27.0	1
9		Nasser, Mrs. Nicholas (Adele Achem)	14.0	1
10		Sandstrom, Miss. Marguerite Rut	4.0	1
11		Bonnell, Miss. Elizabeth	58.0	1
12		Saundercock, Mr. William Henry	20.0	0
13		Andersson, Mr. Anders Johan	39.0	0
14		Vestrom, Miss. Hulda Amanda Adolfina	14.0	0
15		Hewlett, Mrs. (Mary D Kingcome)	55.0	1
16		Rice, Master. Eugene	2.0	0
17		Williams, Mr. Charles Eugene	NaN	1
18		Vander Planke, Mrs. Julius (Emelia Maria Vande...	31.0	0
19		Masselmani, Mrs. Fatima	NaN	1
20		Fynney, Mr. Joseph J	35.0	0
21		Beesley, Mr. Lawrence	34.0	1
22		McGowan, Miss. Anna "Annie"	15.0	1
23		Sloper, Mr. William Thompson	28.0	1
24		Palsson, Miss. Torborg Danira	8.0	0
25		Asplund, Mrs. Carl Oscar (Selma Augusta Emilia...	38.0	1
26		Emir, Mr. Farred Chehab	NaN	0
27		Fortune, Mr. Charles Alexander	19.0	0
28		O'Dwyer, Miss. Ellen "Nellie"	NaN	1
29		Todoroff, Mr. Lalio	NaN	0
...		...	...	...
861		Giles, Mr. Frederick Edward	21.0	0
862		Swift, Mrs. Frederick Joel (Margaret Welles Ba...	48.0	1
863		Sage, Miss. Dorothy Edith "Dolly"	NaN	0

864	Gill, Mr. John William	24.0	0
865	Bystrom, Mrs. (Karolina)	42.0	1
866	Duran y More, Miss. Asuncion	27.0	1
867	Roebeling, Mr. Washington Augustus II	31.0	0
868	van Melkebeke, Mr. Philemon	NaN	0
869	Johnson, Master. Harold Theodor	4.0	1
870	Balkic, Mr. Cerin	26.0	0
871	Beckwith, Mrs. Richard Leonard (Sallie Monypeny)	47.0	1
872	Carlsson, Mr. Frans Olof	33.0	0
873	Vander Cruyssen, Mr. Victor	47.0	0
874	Abelson, Mrs. Samuel (Hannah Wozosky)	28.0	1
875	Najib, Miss. Adele Kiamie "Jane"	15.0	1
876	Gustafsson, Mr. Alfred Ossian	20.0	0
877	Petroff, Mr. Nedelio	19.0	0
878	Laleff, Mr. Kristo	NaN	0
879	Potter, Mrs. Thomas Jr (Lily Alexenia Wilson)	56.0	1
880	Shelley, Mrs. William (Imanita Parrish Hall)	25.0	1
881	Markun, Mr. Johann	33.0	0
882	Dahlberg, Miss. Gerda Ulrika	22.0	0
883	Banfield, Mr. Frederick James	28.0	0
884	Sutehall, Mr. Henry Jr	25.0	0
885	Rice, Mrs. William (Margaret Norton)	39.0	0
886	Montvila, Rev. Juozas	27.0	0
887	Graham, Miss. Margaret Edith	19.0	1
888	Johnston, Miss. Catherine Helen "Carrie"	NaN	0
889	Behr, Mr. Karl Howell	26.0	1
890	Dooley, Mr. Patrick	32.0	0

[891 rows x 3 columns]

In [6]: titanic[["Name", "Age", "Survived"]]

Out[6]:

	Name	Age	Survived
0	Braund, Mr. Owen Harris	22.0	0
1	Cumings, Mrs. JohnBradley (Florence Briggs Th...	38.0	1
2	Heikkinen, Miss. Laina	26.0	1
3	Futrelle, Mrs. Jacques Heath (Lily May Peel)	35.0	1
4	Allen, Mr. William Henry	35.0	0
5	Moran, Mr. James	NaN	0
6	McCarthy, Mr. Timothy J	54.0	0
7	Palsson, Master. Gosta Leonard	2.0	0
8	Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg)	27.0	1
9	Nasser, Mrs. Nicholas (Adele Achem)	14.0	1
10	Sandstrom, Miss. Marguerite Rut	4.0	1
11	Bonnell, Miss. Elizabeth	58.0	1
12	Saunderscock, Mr. William Henry	20.0	0
13	Andersson, Mr. Anders Johan	39.0	0
14	Vestrom, Miss. Hulda Amanda Adolfina	14.0	0

15	Hewlett, Mrs. (Mary D Kingcome)	55.0	1
16	Rice, Master. Eugene	2.0	0
17	Williams, Mr. Charles Eugene	NaN	1
18	Vander Planke, Mrs. Julius (Emelia Maria Vande...	31.0	0
19	Masselmani, Mrs. Fatima	NaN	1
20	Fynney, Mr. Joseph J	35.0	0
21	Beesley, Mr. Lawrence	34.0	1
22	McGowan, Miss. Anna "Annie"	15.0	1
23	Sloper, Mr. William Thompson	28.0	1
24	Palsson, Miss. Torborg Danira	8.0	0
25	Asplund, Mrs. Carl Oscar (Selma Augusta Emilia...	38.0	1
26	Emir, Mr. Farred Chehab	NaN	0
27	Fortune, Mr. Charles Alexander	19.0	0
28	O'Dwyer, Miss. Ellen "Nellie"	NaN	1
29	Todoroff, Mr. Lelio	NaN	0
..	...	...	...
861	Giles, Mr. Frederick Edward	21.0	0
862	Swift, Mrs. Frederick Joel (Margaret Welles Ba...	48.0	1
863	Sage, Miss. Dorothy Edith "Dolly"	NaN	0
864	Gill, Mr. John William	24.0	0
865	Bystrom, Mrs. (Karolina)	42.0	1
866	Duran y More, Miss. Asuncion	27.0	1
867	Roebbing, Mr. Washington Augustus II	31.0	0
868	van Melkebeke, Mr. Philemon	NaN	0
869	Johnson, Master. Harold Theodor	4.0	1
870	Balkic, Mr. Cerin	26.0	0
871	Beckwith, Mrs. Richard Leonard (Sallie Monypeny)	47.0	1
872	Carlsson, Mr. Frans Olof	33.0	0
873	Vander Cruyssen, Mr. Victor	47.0	0
874	Abelson, Mrs. Samuel (Hannah Witosky)	28.0	1
875	Najib, Miss. Adele Kiamie "Jane"	15.0	1
876	Gustafsson, Mr. Alfred Ossian	20.0	0
877	Petroff, Mr. Nedelio	19.0	0
878	Laleff, Mr. Kristo	NaN	0
879	Potter, Mrs. Thomas Jr (Lily Alexenia Wilson)	56.0	1
880	Shelley, Mrs. William (Imanita Parrish Hall)	25.0	1
881	Markun, Mr. Johann	33.0	0
882	Dahlberg, Miss. Gerda Ulrika	22.0	0
883	Banfield, Mr. Frederick James	28.0	0
884	Sutehall, Mr. Henry Jr	25.0	0
885	Rice, Mrs. William (Margaret Norton)	39.0	0
886	Montvila, Rev. Juozas	27.0	0
887	Graham, Miss. Margaret Edith	19.0	1
888	Johnston, Miss. Catherine Helen "Carrie"	NaN	0
889	Behr, Mr. Karl Howell	26.0	1
890	Dooley, Mr. Patrick	32.0	0

[891 rows x 3 columns]



```
In [7]: titanic[titanic["Survived"]==1]
```

```
Out[7]:
```

	PassengerId	Survived	Pclass	\
1	2	1	1	
2	3	1	3	
3	4	1	1	
8	9	1	3	
9	10	1	2	
10	11	1	3	
11	12	1	1	
15	16	1	2	
17	18	1	2	
19	20	1	3	
21	22	1	2	
22	23	1	3	
23	24	1	1	
25	26	1	3	
28	29	1	3	
31	32	1	1	
32	33	1	3	
36	37	1	3	
39	40	1	3	
43	44	1	2	
44	45	1	3	
47	48	1	3	
52	53	1	1	
53	54	1	2	
55	56	1	1	
56	57	1	2	
58	59	1	2	
61	62	1	1	
65	66	1	3	
66	67	1	2	
..	...	...	...	
809	810	1	1	
820	821	1	1	
821	822	1	3	
823	824	1	3	
827	828	1	2	
828	829	1	3	
829	830	1	1	
830	831	1	3	
831	832	1	2	
835	836	1	1	
838	839	1	3	
839	840	1	1	
842	843	1	1	
849	850	1	1	

853	854	1	1
855	856	1	3
856	857	1	1
857	858	1	1
858	859	1	3
862	863	1	1
865	866	1	2
866	867	1	2
869	870	1	3
871	872	1	1
874	875	1	2
875	876	1	3
879	880	1	1
880	881	1	2
887	888	1	1
889	890	1	1

	Name	Sex	Age	SibSp	\
1	Cumings, Mrs. John Bradley (Florence Briggs Th...	female	38.00	1	
2	Heikkinen, Miss. Laina	female	26.00	0	
3	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.00	1	
8	Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg)	female	27.00	0	
9	Nasser, Mrs. Nicholas (Adele Achem)	female	14.00	1	
10	Sandstrom, Miss. Marguerite Rut	female	4.00	1	
11	Bonnell, Miss. Elizabeth	female	58.00	0	
15	Hewlett, Mrs. (Mary D Kingcome)	female	55.00	0	
17	Williams, Mr. Charles Eugene	male	NaN	0	
19	Masselmani, Mrs. Fatima	female	NaN	0	
21	Beesley, Mr. Lawrence	male	34.00	0	
22	McGowan, Miss. Anna "Annie"	female	15.00	0	
23	Sloper, Mr. William Thompson	male	28.00	0	
25	Asplund, Mrs. Carl Oscar (Selma Augusta Emilia...	female	38.00	1	
28	O'Dwyer, Miss. Ellen "Nellie"	female	NaN	0	
31	Spencer, Mrs. William Augustus (Marie Eugenie)	female	NaN	1	
32	Glynn, Miss. Mary Agatha	female	NaN	0	
36	Mamee, Mr. Hanna	male	NaN	0	
39	Nicola-Yarred, Miss. Jamila	female	14.00	1	
43	Laroche, Miss. Simonne Marie Anne Andree	female	3.00	1	
44	Devaney, Miss. Margaret Delia	female	19.00	0	
47	O'Driscoll, Miss. Bridget	female	NaN	0	
52	Harper, Mrs. Henry Sleeper (Myna Haxtun)	female	49.00	1	
53	Faunthorpe, Mrs. Lizzie (Elizabeth Anne Wilkin...	female	29.00	1	
55	Woolner, Mr. Hugh	male	NaN	0	
56	Rugg, Miss. Emily	female	21.00	0	
58	West, Miss. Constance Mirium	female	5.00	1	
61	Icard, Miss. Amelie	female	38.00	0	
65	Moubarek, Master. Gerios	male	NaN	1	
66	Nye, Mrs. (Elizabeth Ramell)	female	29.00	0	

809	Chambers, Mrs. Norman Campbell (Bertha Griggs)	female	33.00	1
820	Hays, Mrs. Charles Melville (Clara Jennings Gr...	female	52.00	1
821	Lulic, Mr. Nikola	male	27.00	0
823	Moor, Mrs. (Beila)	female	27.00	0
827	Mallet, Master. Andre	male	1.00	0
828	McCormack, Mr. Thomas Joseph	male	NaN	0
829	Stone, Mrs. George Nelson (Martha Evelyn)	female	62.00	0
830	Yasbeck, Mrs. Antoni (Selini Alexander)	female	15.00	1
831	Richards, Master. George Sibley	male	0.83	1
835	Compton, Miss. Sara Rebecca	female	39.00	1
838	Chip, Mr. Chang	male	32.00	0
839	Marechal, Mr. Pierre	male	NaN	0
842	Serepeca, Miss. Augusta	female	30.00	0
849	Goldenberg, Mrs. Samuel L (Edwiga Grabowska)	female	NaN	1
853	Lines, Miss. Mary Conover	female	16.00	0
855	Aks, Mrs. Sam (Leah Rosen)	female	18.00	0
856	Wick, Mrs. George Dennick (Mary Hitchcock)	female	45.00	1
857	Daly, Mr. Peter Denis	male	51.00	0
858	Baclini, Mrs. Solomon (Latifa Qurban)	female	24.00	0
862	Swift, Mrs. Frederick Joel (Margaret Welles Ba...	female	48.00	0
865	Bystrom, Mrs. (Karolina)	female	42.00	0
866	Duran y More, Miss. Asuncion	female	27.00	1
869	Johnson, Master. Harold Theodor	male	4.00	1
871	Beckwith, Mrs. Richard Leonard (Sallie Monypeny)	female	47.00	1
874	Abelson, Mrs. Samuel (Hannah Wizosky)	female	28.00	1
875	Najib, Miss. Adele Kiamie "Jane"	female	15.00	0
879	Potter, Mrs. Thomas Jr (Lily Alexenia Wilson)	female	56.00	0
880	Shelley, Mrs. William (Imanita Parrish Hall)	female	25.00	0
887	Graham, Miss. Margaret Edith	female	19.00	0
889	Behr, Mr. Karl Howell	male	26.00	0

	Parch	Ticket	Fare	Cabin	Embarked
1	0	PC 17599	71.2833	C85	C
2	0	STON/02. 3101282	7.9250	NaN	S
3	0	113803	53.1000	C123	S
8	2	347742	11.1333	NaN	S
9	0	237736	30.0708	NaN	C
10	1	PP 9549	16.7000	G6	S
11	0	113783	26.5500	C103	S
15	0	248706	16.0000	NaN	S
17	0	244373	13.0000	NaN	S
19	0	2649	7.2250	NaN	C
21	0	248698	13.0000	D56	S
22	0	330923	8.0292	NaN	Q
23	0	113788	35.5000	A6	S
25	5	347077	31.3875	NaN	S
28	0	330959	7.8792	NaN	Q

31	0	PC	17569	146.5208	B78	C
32	0		335677	7.7500	NaN	Q
36	0		2677	7.2292	NaN	C
39	0		2651	11.2417	NaN	C
43	2	SC/Paris	2123	41.5792	NaN	C
44	0		330958	7.8792	NaN	Q
47	0		14311	7.7500	NaN	Q
52	0	PC	17572	76.7292	D33	C
53	0		2926	26.0000	NaN	S
55	0		19947	35.5000	C52	S
56	0	C.A.	31026	10.5000	NaN	S
58	2	C.A.	34651	27.7500	NaN	S
61	0		113572	80.0000	B28	NaN
65	1		2661	15.2458	NaN	C
66	0	C.A.	29395	10.5000	F33	S
..	...		...	...	...	...
809	0		113806	53.1000	E8	S
820	1		12749	93.5000	B69	S
821	0		315098	8.6625	NaN	S
823	1		392096	12.4750	E121	S
827	2	S.C./PARIS	2079	37.0042	NaN	C
828	0		367228	7.7500	NaN	Q
829	0		113572	80.0000	B28	NaN
830	0		2659	14.4542	NaN	C
831	1		29106	18.7500	NaN	S
835	1	PC	17756	83.1583	E49	C
838	0		1601	56.4958	NaN	S
839	0		11774	29.7000	C47	C
842	0		113798	31.0000	NaN	C
849	0		17453	89.1042	C92	C
853	1	PC	17592	39.4000	D28	S
855	1		392091	9.3500	NaN	S
856	1		36928	164.8667	NaN	S
857	0		113055	26.5500	E17	S
858	3		2666	19.2583	NaN	C
862	0		17466	25.9292	D17	S
865	0		236852	13.0000	NaN	S
866	0	SC/PARIS	2149	13.8583	NaN	C
869	1		347742	11.1333	NaN	S
871	1		11751	52.5542	D35	S
874	0	P/PP	3381	24.0000	NaN	C
875	0		2667	7.2250	NaN	C
879	1		11767	83.1583	C50	C
880	1		230433	26.0000	NaN	S
887	0		112053	30.0000	B42	S
889	0		111369	30.0000	C148	C

[342 rows x 12 columns]

```
In [8]: titanic[(titanic["Survived"]==1) & (titanic["Sex"]=="female")][["Name", "Age"]]
```

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Out[8]:
```

	Name	Age
1	Cumings, Mrs. John Bradley (Florence Briggs Th...	38.0
2	Heikkinen, Miss. Laina	26.0
3	Futrelle, Mrs. Jacques Heath (Lily May Peel)	35.0
8	Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg)	27.0
9	Nasser, Mrs. Nicholas (Adele Achem)	14.0
10	Sandstrom, Miss. Marguerite Rut	4.0
11	Bonnell, Miss. Elizabeth	58.0
15	Hewlett, Mrs. (Mary D Kingcome)	55.0
19	Masselmani, Mrs. Fatima	NaN
22	McGowan, Miss. Anna "Annie"	15.0
25	Asplund, Mrs. Carl Oscar (Selma Augusta Emilia...	38.0
28	O'Dwyer, Miss. Ellen "Nellie"	NaN
31	Spencer, Mrs. William Augustus (Marie Eugenie)	NaN
32	Glynn, Miss. Mary Agatha	NaN
39	Nicola-Yarred, Miss. Jamila	14.0
43	Laroche, Miss. Simonne Marie Anne Andree	3.0
44	Devaney, Miss. Margaret Delia	19.0
47	O'Driscoll, Miss. Bridget	NaN
52	Harper, Mrs. Henry Sleeper (Myna Haxtun)	49.0
53	Faunthorpe, Mrs. Lizzie (Elizabeth Anne Wilkin...	29.0
56	Rugg, Miss. Emily	21.0
58	West, Miss. Constance Mirium	5.0
61	Icard, Miss. Amelie	38.0
66	Nye, Mrs. (Elizabeth Ramell)	29.0
68	Andersson, Miss. Erna Alexandra	17.0
79	Dowdell, Miss. Elizabeth	30.0
82	McDermott, Miss. Brigdet Delia	NaN
84	Ilett, Miss. Bertha	17.0
85	Backstrom, Mrs. Karl Alfred (Maria Mathilda Gu...	33.0
88	Fortune, Miss. Mabel Helen	23.0
..	...	...
774	Hocking, Mrs. Elizabeth (Eliza Needs)	54.0
777	Emanuel, Miss. Virginia Ethel	5.0
779	Robert, Mrs. Edward Scott (Elisabeth Walton Mc...	43.0
780	Ayoub, Miss. Banoura	13.0
781	Dick, Mrs. Albert Adrian (Vera Gillespie)	17.0
786	Sjoblom, Miss. Anna Sofia	18.0
796	Leader, Dr. Alice (Farnham)	49.0
797	Osman, Mrs. Mara	31.0
801	Collyer, Mrs. Harvey (Charlotte Annie Tate)	31.0
809	Chambers, Mrs. Norman Campbell (Bertha Griggs)	33.0
820	Hays, Mrs. Charles Melville (Clara Jennings Gr...	52.0
823	Moor, Mrs. (Beila)	27.0
829	Stone, Mrs. George Nelson (Martha Evelyn)	62.0
830	Yasbeck, Mrs. Antoni (Selini Alexander)	15.0

835	Compton, Miss. Sara Rebecca	39.0
842	Serepeca, Miss. Augusta	30.0
849	Goldenberg, Mrs. Samuel L (Edwiga Grabowska)	NaN
853	Lines, Miss. Mary Conover	16.0
855	Aks, Mrs. Sam (Leah Rosen)	18.0
856	Wick, Mrs. George Dennick (Mary Hitchcock)	45.0
858	Baclini, Mrs. Solomon (Latifa Qurban)	24.0
862	Swift, Mrs. Frederick Joel (Margaret Welles Ba...	48.0
865	Bystrom, Mrs. (Karolina)	42.0
866	Duran y More, Miss. Asuncion	27.0
871	Beckwith, Mrs. Richard Leonard (Sallie Monypeny)	47.0
874	Abelson, Mrs. Samuel (Hannah Wizosky)	28.0
875	Najib, Miss. Adele Kiamie "Jane"	15.0
879	Potter, Mrs. Thomas Jr (Lily Alexenia Wilson)	56.0
880	Shelley, Mrs. William (Imanita Parrish Hall)	25.0
887	Graham, Miss. Margaret Edith	19.0

[233 rows x 2 columns]