working on data setfrom seaborn library

```
import seaborn as sns
df= sns.load_dataset("titanic")
df
```

	survived	pclass	sex	age	sibsp	parch	fare	embarked	class	who
0	0	3	male	22.0	1	0	7.2500	S	Third	man
1	1	1	female	38.0	1	0	71.2833	С	First	woman
2	1	3	female	26.0	0	0	7.9250	S	Third	woman
3	1	1	female	35.0	1	0	53.1000	S	First	woman
4	0	3	male	35.0	0	0	8.0500	S	Third	man
886	0	2	male	27.0	0	0	13.0000	S	Second	man
887	1	1	female	19.0	0	0	30.0000	S	First	woman
888	0	3	female	NaN	1	2	23.4500	S	Third	woman
889	1	1	male	26.0	0	0	30.0000	С	First	man
890	0	3	male	32.0	0	0	7.7500	Q	Third	man
891 ro	ws × 15 colu	umns								+

CHECKING INFORMATION ABOUT DATA

df.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 891 entries, 0 to 890
Data columns (total 15 columns):

#	Column	Non-Null Count	Dtype
0	survived	891 non-null	int64
1	pclass	891 non-null	int64
2	sex	891 non-null	object
3	age	714 non-null	float64
4	sibsp	891 non-null	int64
5	parch	891 non-null	int64
6	fare	891 non-null	float64
7	embarked	889 non-null	object
8	class	891 non-null	category
9	who	891 non-null	object
10	adult_male	891 non-null	bool
11	deck	203 non-null	category
12	embark_town	889 non-null	object
13	alive	891 non-null	object
14	alone	891 non-null	bool
dtyp	es: bool(2),	category(2), flo	at64(2), int64(4), object(5)
memo	ry usage: 80.	7+ KB	

CHECKING FIRST ENTRIES

df.head()

	survived	pclass	sex	age	sibsp	parch	fare	embarked	class	who	adul
0	0	3	male	22.0	1	0	7.2500	S	Third	man	
1	1	1	female	38.0	1	0	71.2833	С	First	woman	
2	1	3	female	26.0	0	0	7.9250	S	Third	woman	
3	1	1	female	35.0	1	0	53.1000	S	First	woman	
4	0	3	male	35.0	0	0	8.0500	S	Third	man	
- 4											•

CHECKING LAST ENTRIES

df.tail()

3/2023, 11.					-41		6		-1		
886	survived 0	2	sex male	27.0	S10SP 0	parch 0	13.00	e embarked		man	adu
887	1	1	female	19.0	0	0	30.00			woman	
888	0	3	female	NaN	1		23.45			woman	
### SUMMAR\	' STATITIC	ns.									
890	0	3	male	32.0	0	0	7.75	5 Q	Third	man	
df.describe	e()										
	survi	ved	pclass		age	si	bsp	parch	far	e 🎢	
coun	891.000	000 891	.000000	714.0	00000	891.000	000	391.000000	891.00000	0	
mean	0.383	838 2	.308642	29.6	99118	0.523	800	0.381594	32.20420	8	
std	0.486	592 0	.836071	14.5	26497	1.102	743	0.806057	49.69342	9	
min	0.000	000 1	.000000	0.4	20000	0.000	000	0.000000	0.00000	0	
25%	0.000	000 2	.000000	20.1	25000	0.000	000	0.000000	7.91040	0	
50%	0.000	000 3	.000000	28.0	00000	0.000	000	0.000000	14.45420	0	
75%	1.0000	000 3	.000000	38.0	00000	1.000	000	0.000000	31.00000	0	
max	1.0000	000 3	.000000	80.0	00000	8.000	000	6.000000	512.32920	0	
### CHECKING df.shape (891, # ROWS df.shape[0] 891 # COLUMN df.shape[1] 15	15)										
Index	'embarke 'alive', dtype='ob	ed', 'cl , 'alone oject')	ass', 'v					arch', 'faı ', 'embark <u></u>			
df.index					- \						
Range:	Index(star	rt=0, st	op=891,	step=	1)						
### REMOVIN	IG SPECIFI	IES COLUI	MNS								
df1=df.drop df1)(["deck",	,"alone"],axis=1	1)							

	survived	pclass	sex	age	sibsp	parch	fare	embarked	class	who
0	0	3	male	22.0	1	0	7.2500	S	Third	mar
1	1	1	female	38.0	1	0	71.2833	С	First	womai
2	1	3	female	26.0	0	0	7.9250	S	Third	womai
3	1	1	female	35.0	1	0	53.1000	S	First	womai
4	0	3	male	35.0	0	0	8.0500	S	Third	mai
886	0	2	male	27.0	0	0	13.0000	S	Second	mai
## CHECKI	NG MISSING	VALUES								
000	^	ာ	famala	NaNi	1	o	22 4500	c	Third	woman
f.isnull().sum()									
survi		0								
pclas	5	0								
	_									
sex	_	0								
sex age		0 177								
sex age sibsp		0 177 0								
sex age sibsp parch		0 177 0 0								
sex age sibsp parch fare		0 177 0 0								
sex age sibsp parch fare embar	ked	0 177 0 0 0 2								
sex age sibsp parch fare	ked	0 177 0 0								
sex age sibsp parch fare embar class	ked	0 177 0 0 0 2								
sex age sibsp parch fare embar class who	ked	0 177 0 0 0 2 0								
sex age sibsp parch fare embard class who adult deck	ked	0 177 0 0 0 2 0 0								
sex age sibsp parch fare embard class who adult deck	ked _male k_town	0 177 0 0 0 2 0 0 0								
sex age sibsp parch fare embari class who adult deck embari alive alone	ked _male k_town	0 177 0 0 0 2 0 0 0 6 88 2								

```
df.age.unique()
```

```
array([22. , 38. , 26. , 35. , nan, 54. , 2. , 27. , 14. , 4. , 58. , 20. , 39. , 55. , 31. , 34. , 15. , 28. , 8. , 19. , 40. , 66. , 42. , 21. , 18. , 3. , 7. , 49. , 29. , 65. , 28.5 , 5. , 11. , 45. , 17. , 32. , 16. , 25. , 0.83, 30. , 33. , 23. , 24. , 46. , 59. , 71. , 37. , 47. , 14.5 , 70.5 , 32.5 , 12. , 9. , 36.5 , 51. , 55.5 , 40.5 , 44. , 1. , 61. , 56. , 50. , 36. , 45.5 , 20.5 , 62. , 41. , 52. , 63. , 23.5 , 0.92, 43. , 60. , 10. , 64. , 13. , 48. , 0.75, 53. , 57. , 80. , 70. , 24.5 , 6. , 0.67, 30.5 , 0.42, 34.5 , 74. ])
```

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