

# Pandas - Removing Duplicates



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## **Discovering Duplicates**

Duplicate rows are rows that have been registered more than one time.

Duration	Date	Pulse	Maxpulse	Calories
60	'2020/12/01'	110	130	409.1
60	'2020/12/02'	117	145	479.0
60	'2020/12/03'	103	135	340.0
45	'2020/12/04'	109	175	282.4
45	'2020/12/05'	117	148	406.0
60	'2020/12/06'	102	127	300.0
60	'2020/12/07'	110	136	374.0
450	'2020/12/08'	104	134	253.3
30	'2020/12/09'	109	133	195.1
60	'2020/12/10'	98	124	269.0
60	'2020/12/11'	103	147	329.3
60	'2020/12/12'	100	120	250.7
60	'2020/12/12'	100	120	250.7
60	'2020/12/13'	106	128	345.3
60	'2020/12/14'	104	132	379.3
60	'2020/12/15'	98	123	275.0
60	'2020/12/16'	98	120	215.2
60	'2020/12/17'	100	120	300.0
45	'2020/12/18'	90	112	NaN
60	'2020/12/19'	103	123	323.0
45	'2020/12/20'	97	125	243.0
60	'2020/12/21'	108	131	364.2
45	NaN	100	119	282.0
60	'2020/12/23'	130	101	300.0
	60 60 45 45 60 60 450 30 60 60 60 60 60 60 60 60 60 45 60 60 60 60 60 60 60 60 60 60 60 60 60	60 '2020/12/01' 60 '2020/12/02' 60 '2020/12/03' 45 '2020/12/04' 45 '2020/12/05' 60 '2020/12/06' 60 '2020/12/07' 450 '2020/12/09' 60 '2020/12/10' 60 '2020/12/10' 60 '2020/12/11' 60 '2020/12/12' 60 '2020/12/12' 60 '2020/12/13' 60 '2020/12/14' 60 '2020/12/15' 60 '2020/12/16' 60 '2020/12/17' 45 '2020/12/18' 60 '2020/12/19' 45 '2020/12/20' 60 '2020/12/21'	60 '2020/12/01' 110 60 '2020/12/02' 117 60 '2020/12/03' 103 45 '2020/12/04' 109 45 '2020/12/06' 102 60 '2020/12/06' 102 60 '2020/12/07' 110 450 '2020/12/08' 104 30 '2020/12/09' 109 60 '2020/12/10' 98 60 '2020/12/11' 103 60 '2020/12/12' 100 60 '2020/12/12' 100 60 '2020/12/13' 106 60 '2020/12/13' 106 60 '2020/12/14' 104 60 '2020/12/15' 98 60 '2020/12/16' 98 60 '2020/12/16' 98 60 '2020/12/17' 100 45 '2020/12/17' 100 45 '2020/12/18' 90 60 '2020/12/19' 103 45 '2020/12/20' 97 60 '2020/12/21' 108 45 NaN 100	60 '2020/12/01' 110 130 60 '2020/12/02' 117 145 60 '2020/12/03' 103 135 45 '2020/12/04' 109 175 45 '2020/12/06' 102 127 60 '2020/12/07' 110 136 450 '2020/12/08' 104 134 30 '2020/12/09' 109 133 60 '2020/12/10' 98 124 60 '2020/12/10' 98 124 60 '2020/12/11' 103 147 60 '2020/12/12' 100 120 60 '2020/12/12' 100 120 60 '2020/12/12' 100 120 60 '2020/12/13' 106 128 60 '2020/12/14' 104 132 60 '2020/12/15' 98 123 60 '2020/12/16' 98 120 60 '2020/12/16' 98 120 60 '2020/12/16' 98 120 60 '2020/12/17' 100 120 45 '2020/12/18' 90 112 60 '2020/12/18' 90 112 60 '2020/12/19' 103 123 45 '2020/12/20' 97 125 60 '2020/12/21' 108 131 45 NaN 100 119

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28		60	2020/12	/281	103	132	NaN			
29		60	12020/12	/29 '	100	132	280.0			
30		60	'2020/12/	/30'	102	129	380.3			
31		60	'2020/12/	/31'	92	115	243.0			

By taking a look at our test data set, we can assume that row 11 and 12 are duplicates.

To discover duplicates, we can use the duplicated() method.

The duplicated() method returns a Boolean values for each row:

#### Example

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Returns True for every row that is a duplicate, otherwise False:

```
print(df.duplicated())
```

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### **Removing Duplicates**

To remove duplicates, use the drop\_duplicates() method.



df.drop\_duplicates(inplace = True)

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**Remember:** The (inplace = True) will make sure that the method does NOT return a *new* DataFrame, but it will remove all duplicates from the *original* DataFrame.

### Test Yourself With Exercises

### **Exercise:**

Insert the correct syntax for removing rows with empty cells.

df. ()

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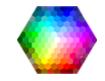




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