

```
-----
ValueError                                Traceback (most recent call last)
<ipython-input-7-b785d2ef60bc> in <cell line: 15>()
    13
    14 df.columns=['A','B','C','D','E']
--> 15 df.index = ['A','B','C','D','E']
    16
    17

----- 4 frames -----
/usr/local/lib/python3.10/dist-packages/pandas/core/internals/base.py in
_validate_set_axis(self, axis, new_labels)
    68
    69     elif new_len != old_len:
--> 70         raise ValueError(
    71             f"Length mismatch: Expected axis has {old_len} elements, new "
    72             f"values have {new_len} elements"

ValueError: Length mismatch: Expected axis has 10 elements, new values have 5 elements
```

SEARCH STACK OVERFLOW

```
import pandas as pd
import numpy as np
```

```
df = pd.DataFrame([[1, 10, 'a', True, 1.2],
                   [2, 9, 'b', False, 3.4],
                   [3, 8, 'c', True, 5.6],
                   [4, 7, 'd', False, 7.8],
                   [5, 6, 'e', True, 9.0],
                   [6, 5, 'f', False, 10.1],
                   [7, 4, 'g', True, 11.2],
                   [8, 3, 'h', False, 12.3],
                   [9, 2, 'i', True, 13.4],
                   [10, 1, 'j', False, 14.5]])
```

df

	0	1	2	3	4
0	1	10	a	True	1.2
1	2	9	b	False	3.4
2	3	8	c	True	5.6
3	4	7	d	False	7.8
4	5	6	e	True	9.0
5	6	5	f	False	10.1
6	7	4	g	True	11.2
7	8	3	h	False	12.3
8	9	2	i	True	13.4
9	10	1	j	False	14.5

```
df.columns=['A','B','C','D','E']
df.index = ['A','B','C','D','E','F','G','H','I','J']
df
```

A B C D E 



df.info()

```
<class 'pandas.core.frame.DataFrame'>
Index: 10 entries, A to J
Data columns (total 5 columns):
#   Column  Non-Null Count  Dtype
---  -
0    A      10 non-null      int64
1    B      10 non-null      int64
2    C      10 non-null      object
3    D      10 non-null      bool
4    E      10 non-null      float64
dtypes: bool(1), float64(1), int64(2), object(1)
memory usage: 710.0+ bytes

l    9    2    i    True   13.4
```

a=df.describe()

a

	A	B	E	
count	10.00000	10.00000	10.000000	
mean	5.50000	5.50000	8.850000	
std	3.02765	3.02765	4.365585	
min	1.00000	1.00000	1.200000	
25%	3.25000	3.25000	6.150000	
50%	5.50000	5.50000	9.550000	
75%	7.75000	7.75000	12.025000	
max	10.00000	10.00000	14.500000	



four=df.loc['D']

four

```
A      4
B      7
C      d
D      False
E      7.8
Name: D, dtype: object
```

null_values=df.isnull()

null_values

	A	B	C	D	E	
A	False	False	False	False	False	
B	False	False	False	False	False	
C	False	False	False	False	False	
D	False	False	False	False	False	
E	False	False	False	False	False	
F	False	False	False	False	False	
G	False	False	False	False	False	
H	False	False	False	False	False	
I	False	False	False	False	False	
J	False	False	False	False	False	

null_val=df.isnull().any()

null_val

```
A    False
B    False
C    False
D    False
E    False
dtype: bool
```

✓ 0s completed at 8:35 PM

