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Pandas adding extra row to DataFrame when assigning index

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 **stackoverflow**

I'm trying to use the 0th column ("Gene.name") as the Index values. Here's the original data below:

```
In [49]: DF_gex = pd.read_table(wd + "gex.csv", sep=",", index_col=0)
DF_mutations = pd.read_table(wd + "mutations.csv", sep=",")#, index_col=0)
DF_mutations.head()
```

Out[49]:

	Gene.name	Accession.Number	Gene.CDS.length	HGNC.ID	cell_line_name	ID_sample
0	FRMD4A	ENST00000357447	3120	25491	HCC1806	907047
1	LILRB1	ENST00000396331	1953	6605	HCC1806	907047
2	FAM110B	ENST00000361488	1113	28587	HCC1806	907047

I tried to set the index a few different ways. The first was using `index_col=0` in the `DataFrame` creation. I also tried `DF_mutations.index = DF_mutations["Gene.name"]` but they both led to an empty row underneath the header show below:

```
In [46]: DF_gex = pd.read_table(wd + "gex.csv", sep=",", index_col=0)
DF_mutations = pd.read_table(wd + "mutations.csv", sep=",", index_col=0)
DF_mutations.head()
```

Out[46]:

	Accession.Number	Gene.CDS.length	HGNC.ID	cell_line_name	ID_sample
Gene.name					
FRMD4A	ENST00000357447	3120	25491	HCC1806	907047
LILRB1	ENST00000396331	1953	6605	HCC1806	907047
FAM110B	ENST00000361488	1113	28587	HCC1806	907047

How can I get rid of this extra row when I'm reassigning the index values?

python pandas indexing row dataframe

asked Oct 14 '15 at 5:10



O.rka

2,543

9

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So you do not want a name for the index ? The empty row is because of the index's name –

Anand S Kumar Oct 14 '15 at 5:13

The name isn't necessary, I can do away with it. How can you drop the index name once you reassign it? –

O.rka Oct 14 '15 at 5:15

I don't think there is actually an empty row in the DataFrame itself. There is just an empty row in the display.

You don't need to get rid of the name unless you actually care about that visual display. – [BrenBarn](#) Oct 14 '15 at 5:20

1 Answer

The empty row in the print you see is because the `index` has a name - `Gene.name` (This is not a real row in the DataFrame though) . If you don't want that row , I believe you would need to do away with the name. Example -

```
df.index.name = None
```

Demo -

```
In [6]: df = pd.DataFrame([[1,2,3,4],[1,2,3,4]]).set_index(0)

In [7]: df
Out[7]:
   1  2  3
0 <----- Name of the index for this DataFrame
1  2  3  4
1  2  3  4

In [10]: df.index.name=None

In [11]: df
Out[11]:
   1  2  3
1  2  3  4
1  2  3  4
```

edited Oct 14 '15 at 5:20

answered Oct 14 '15 at 5:16



[Anand S Kumar](#)

43.1k 10 36 63

Awesome. Thank you, I got it to work. – [O.rka](#) Oct 14 '15 at 5:18
