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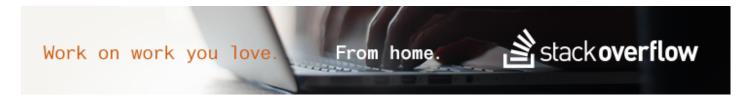
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saving a dataframe to JSON file on local drive in pyspark



I have a dataframe that I am trying to save as a JSON file using pyspark 1.4, but it doesn't seem to be working. When i give it the path to the directory it returns an error stating it already exists. My assumption based off the documentation was that it would save a json file in the path that you give it.

```
df.write.json("C:\Users\username")
```

Specifying a directory with a name doesn't produce any file and gives and error of "java.io.IOException: Mkdirs failed to create file:/C:Users/username/test/_temporary/....etc. It does however create a directory of the name test which contains several sub-directories with blank crc files.

```
df.write.json("C:\Users\username\test")
```

And adding a file extension of JSON, produces the same error

```
df.write.json("C:\Users\username\test.JSON")
```

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edited Jun 26 '15 at 17:48

asked Jun 26 '15 at 15:38



- I think you need to give it a complete file name, not just the directory. Brobin Jun 26 '15 at 15:40
- yes, i verified the permissions on that directory and used getpass.getuser() from python to verify that i was logged in as that user via the console. - TheRandomSuit Jun 26 '15 at 17:35
- 1 try an alternate approach such as df.toJSON().saveAsTextFile(path) urug Jun 26 '15 at 17:41
- 1 I too faced such a problem when using windows.. So I changes to Linux where same code worked perfectly ... - KcDoD Jun 26 '15 at 17:53
- Thanks for giving it a try. I figured it had something to do with Windows, ughhh.... TheRandomSuit Jun 26 '15 at 17:54

2 Answers

Could you not just use

df.toJSON()

as shown here? If not, then first transform into a pandas DataFrame and then write to json.

pandas df = df.toPandas() pandas df.to json("C:\Users\username\test.JSON")

answered Jun 29 '15 at 14:39



NightHallow 552 3 15

df.toJSON() doesn't seem to accept an array, but if I pass it a single line it works. i'm trying to debug this more. - TheRandomSuit Jun 29 '15 at 17:35

converting to a Pandas dataframe works perfect, I would probably just use a Pandas dataframe the entire time, unless there are memory or processing issues that would arise from a much larger data set. – TheRandomSuit Jun 29 '15 at 17:41

Yeah, I use DataFrames as often as I can. If memory becomes a problem take a look at Dask – NightHallow Jul 1 '15 at 14:37



I would avoid using write.json since its causing problems on Windows. Using Python's file writing should skip creating the temp directories that are giving you issues.

```
with open("C:\\Users\\username\\test.json", "w+") as output_file:
output_file.write(df.toJSON())
```

edited Jun 29 '15 at 17:17

answered Jun 29 '15 at 14:16



Brobin

.276 1 5 2

If I use output_file.write(df.toJSON()) it produces TypeError: expected character buffer object, i'm assuming it is passing it an array which then causes the failure because if I use output_file.write(df.toJSON().first()) it will successfully create the JSON file with only one line in it. — TheRandomSuit Jun 29 '15 at 17:16

Great! I added the escape slashes to my answer. - Brobin Jun 29 '15 at 17:17