From SQL Database to Excel with Python

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I am new to Python. I've successfully connected to my SQL database via an odbc connection and I am pulling data from a table. How do I then get that data into a Excel workbook. Preferably using the xlsxwriter module.

```
import pyodbc
cnxn = pyodbc.connect('DRIVER={SQL Server};SERVER=SQLSERVER;PORT=XX;
DATABASE=dbname;UID=sa;PWD=##')
cursor = cnxn.cursor()
cursor.execute("select * from T1 where C2 not like '%text%'")
for row in cursor:
        print row.1, row.2, row3

cursor.close()
cnxn.close()
```

python   sql-server   excel   odbc   xlsxwriter

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edited Nov 16 '16 at 23:08

user6904265
1,908 1   14   21

asked Nov 16 '16 at 22:23

Erinna00
63   1   7

4 Answers

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pandas is the easiest bet for this. Here's an example using sqlite as the database backend:

```
In [38]: import pandas as pd

In [39]: df
Out[39]:
          0         1         2         3         4
0  0.092719  0.664147  0.677834  0.605845  0.569223
1  0.656272  0.321661  0.294219  0.818676  0.010610
2  0.041692  0.721683  0.163525  0.175113  0.580234
3  0.852775  0.106076  0.049080  0.649362  0.265763
4  0.481842  0.942276  0.462951  0.386705  0.205302

In [40]: df.to_sql("tbl", sqlite3.connect("test.sqlite"), index=False)

In [41]: new_df = pd.read_sql("select * from tbl",
sqlite3.connect("test.sqlite"))

In [42]: new_df
Out[42]:
          0         1         2         3         4
0  0.092719  0.664147  0.677834  0.605845  0.569223
1  0.656272  0.321661  0.294219  0.818676  0.010610
2  0.041692  0.721683  0.163525  0.175113  0.580234
3  0.852775  0.106076  0.049080  0.649362  0.265763
4  0.481842  0.942276  0.462951  0.386705  0.205302

In [43]: new_df.to_excel("out.xlsx")
```

Lines 41 and 43 are the main ones, and this results in a single sheet Excel doc named out.xlsx in the current folder.

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answered Nov 16 '16 at 23:14

Randy
13k 2 31 38

2

Since you already have your data, it seems like your question is simply how to get your data into Excel. Let's say you have data in an object named `rows`, which is a list of result rows.

```python
import xlsxwriter
workbook = xlsxwriter.Workbook('YourResults.xlsx')
worksheet = workbook.add_worksheet()

row = 0
col = 0

for row_data in rows:
    worksheet.write(row, col, row_data.1)
    worksheet.write(row, col+1, row_data.2)
    worksheet.write(row, col+2, row_data.3)
    row += 1

workbook.close()
```

This should write rows of data to your spreadsheet. You can view the xlsxwriter tutorial here: https://xlsxwriter.readthedocs.io/tutorial01.html

Just as an aside, you can also access SQL and Excel via ADO (using COM), however, if you're just beginning with Python, that might be a bit more challenging. If you're interested in looking at that later, here's a primer on ADO in python: http://mayukhbose.com/python/ado/index.php

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answered Nov 16 '16 at 23:15

iUknwn
180   8