

Excel, CSV

- description : Excel, CSV
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- lastupdate : 2020-06-26

Excel, CSV

resourec

.CSV

```
# Section11
#
#     Excel, CSV

# CSV : MIME - text/csv

import csv

#     1
with open('./resource/sample1.csv', 'r') as f:
    reader = csv.reader(f)
    # next(reader) Header ( )
    #
    print(reader)
    print(type(reader))
    print(dir(reader)) # __iter__ --> iter가 가
    print()

    for c in reader:
        print(c)

print()

#     2
with open('./resource/sample2.csv', 'r') as f:
    reader = csv.reader(f, delimiter='|') # delimiter( ) --> |

    # next(reader) Header
```

```
#
print(reader)
print(type(reader))
print(dir(reader)) # __iter__
print()

for c in reader:
    print(c)

print()
# 3 (Dict )
with open('./resource/sample1.csv', 'r') as f:
    reader = csv.DictReader(f)
    #
    print(reader)
    print(type(reader))
    print(dir(reader)) # __iter__
    print()

    for c in reader:
        for k, v in c.items():
            print(k, v)
        print('-----')

print()
# 4
w = [[1, 2, 3], [4, 5, 6], [7, 8, 9], [10, 11, 12], [13, 14, 15]]

with open('./resource/sample3.csv', 'w') as f: # newline=''
    wt = csv.writer(f)
    # dir
    print(dir(wt))
    print(type(wt))
    for v in w:
        wt.writerow(v)

print()
# 5
with open('./resource/sample3.csv', 'w', newline='') as f: # newline -->

    wt = csv.writer(f)
    # dir
    print(dir(wt))
    print(type(wt))

    wt.writerows(w)

print()
# XSL, XLSX : MIME - applications/vnd.excel, application/vnd.openxmlformats-officedocument.spreadsheetml.sheet
```

```

# pip install pandas
# pip install xlrd
# pip install openpyxl

# openpyxl, xlsxwriter, xlrd, xlwt, xlutils          pandas
  (openpyxl, xlrd)

import pandas as pd

xlsx = pd.read_excel('./resource/sample.xlsx') # , sheetname=' ',
header=3, skiprow=1

#
print(xlsx.head())
print()

#
print(xlsx.tail())
print()

#
print(xlsx.shape) # ,

#      or CSV
xlsx.to_excel('./resource/result.xlsx', index=False)
xlsx.to_csv('./resource/result.csv', index=False)

```

```

<_csv.reader object at 0x000001787F76FA60>
<class '_csv.reader'>
['__class__', '__delattr__', '__dir__', '__doc__', '__eq__', '__format__',
 '__ge__', '__getattr__', '__gt__', '__hash__', '__init__',
 '__init_subclass__', '__iter__', '__le__', '__lt__', '__ne__', '__new__',
 '__next__', '__reduce__', '__reduce_ex__', '__repr__', '__setattr__',
 '__sizeof__', '__str__', '__subclasshook__', 'dialect', 'line_num']

```

```

[' ', ' ', '가 ', ' ']
['1', ' ', ' ', '2017-01-19 11:30:00', '25']
['2', ' ', ' ', '2017-02-07 10:22:00', '35']
['3', ' ', ' ', '2017-01-22 09:10:00', '33']
['4', ' ', ' ', '2017-02-22 14:09:00', '45']
['5', ' ', ' ', '2017-04-01 18:00:00', '17']
['6', ' ', ' ', '2017-05-14 22:33:07', '22']
['7', ' ', ' ', '2017-03-01 23:44:45', '27']
['8', ' ', ' ', '2017-01-11 06:04:18', '30']
['9', ' ', ' ', '2017-02-08 07:44:33', '51']
['10', ' ', ' ', '2017-12-01 13:01:11', '16']

```

```

<_csv.reader object at 0x000001787F7967C0>
<class '_csv.reader'>

```

```
['__class__', '__delattr__', '__dir__', '__doc__', '__eq__', '__format__',  
 '__ge__', '__getattr__', '__gt__', '__hash__', '__init__',  
 '__init_subclass__', '__iter__', '__le__', '__lt__', '__ne__', '__new__',  
 '__next__', '__reduce__', '__reduce_ex__', '__repr__', '__setattr__',  
 '__sizeof__', '__str__', '__subclasshook__', 'dialect', 'line_num']
```

```
['', '가', '']  
['1', '가', '2017-01-19 11:30:00', '25']  
['2', '가', '2017-02-07 10:22:00', '35']  
['3', '가', '2017-01-22 09:10:00', '33']  
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['6', '가', '2017-05-14 22:33:07', '22']  
['7', '가', '2017-03-01 23:44:45', '27']  
['8', '가', '2017-01-11 06:04:18', '30']  
['9', '가', '2017-02-08 07:44:33', '51']  
['10', '가', '2017-12-01 13:01:11', '16']
```

<csv.DictReader object at 0x000001787EE68550>

<class 'csv.DictReader'>

```
['__class__', '__delattr__', '__dict__', '__dir__', '__doc__', '__eq__',  
 '__format__', '__ge__', '__getattr__', '__gt__', '__hash__',  
 '__init__', '__init_subclass__', '__iter__', '__le__', '__lt__',  
 '__module__', '__ne__', '__new__', '__next__', '__reduce__',  
 '__reduce_ex__', '__repr__', '__setattr__', '__sizeof__', '__str__',  
 '__subclasshook__', '__weakref__', '_fieldnames', 'dialect', 'fieldnames',  
 'line_num', 'reader', 'restkey', 'restval']
```

1

가 2017-01-19 11:30:00
25

2

가 2017-02-07 10:22:00
35

3

가 2017-01-22 09:10:00
33

4

가 2017-02-22 14:09:00
45

5

가 2017-04-01 18:00:00
17

6

가 2017-05-14 22:33:07
 22

 7

가 2017-03-01 23:44:45
 27

 8

가 2017-01-11 06:04:18
 30

 9

가 2017-02-08 07:44:33
 51

 10

가 2017-12-01 13:01:11
 16

```
['__class__', '__delattr__', '__dir__', '__doc__', '__eq__', '__format__',
 '__ge__', '__getattr__', '__gt__', '__hash__', '__init__',
 '__init_subclass__', '__le__', '__lt__', '__ne__', '__new__', '__reduce__',
 '__reduce_ex__', '__repr__', '__setattr__', '__sizeof__', '__str__',
 '__subclasshook__', 'dialect', 'writerow', 'writerows']
<class '_csv.writer'>
```

```
['__class__', '__delattr__', '__dir__', '__doc__', '__eq__', '__format__',
 '__ge__', '__getattr__', '__gt__', '__hash__', '__init__',
 '__init_subclass__', '__le__', '__lt__', '__ne__', '__new__', '__reduce__',
 '__reduce_ex__', '__repr__', '__setattr__', '__sizeof__', '__str__',
 '__subclasshook__', 'dialect', 'writerow', 'writerows']
<class '_csv.writer'>
```

	Sap Co.	TEAM			
0	KI1316	1720000	2952000	1	123
1	KI1451	4080000	2706000	2	220
2	KI1534	600000	2214000	1	320
3	KI1636	3720000	2870000	3	110
4	KI1735	4800000	2296000	1	134

	Sap Co.	TEAM			
15	KI2870	6000000	3400000	2	143
16	KI2910	4800000	4896000	1	176
17	KI3030	4560000	3128000	2	98
18	KI3131	2750000	7268000	3	293
19	KI3252	가 2420000	4740000	4	240

(20, 7)

Tip

, [python](#), [Excel](#), [CSV](#)

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