Lesson 10

- From DataFrame to Excel
- From Excel to DataFrame
- From DataFrame to JSON
- From JSON to DataFrame

In [1]:
```
import pandas as pd
import sys
```

In [2]:
```
print 'Python version ' + sys.version
print 'Pandas version: ' + pd.__version__
```

```
Python version 2.7.5 |Anaconda 2.1.0 (64-bit)| (default, Jul  1 2013, 1
Pandas version: 0.15.2
```

From DataFrame to Excel

In [3]:
```
# Create DataFrame
d = [1,2,3,4,5,6,7,8,9]
df = pd.DataFrame(d, columns = ['Number'])
df
```

Out[3]:

	Number
0	1
1	2
2	3
3	4
4	5
5	6
6	7
7	8
8	9

In [4]:
```
# Export to Excel
df.to_excel('Lesson10.xlsx', sheet_name = 'testing', index = False)
print 'Done'
```

```
Done
```

From Excel to DataFrame

In [5]:
```
# Path to excel file
# Your path will be different, please modify the path below.
location = r'C:\Users\david\notebooks\pandas\Lesson10.xlsx'

# Parse the excel file
df = pd.read_excel(location, 0)
df.head()
```

Out[5]:

	Number
0	1
1	2
2	3
3	4
4	5

In [6]:
```
df.dtypes
```

Out[6]:
```
Number    int64
dtype: object
```

In [7]:
```
df.tail()
```

Out[7]:

	Number
4	5
5	6
6	7
7	8
8	9

From DataFrame to JSON

In [8]:
```
df.to_json('Lesson10.json')
print 'Done'
```

```
Done
```

From JSON to DataFrame

In [9]:
```
# Your path will be different, please modify the path below.
jsonloc = r'C:\Users\david\notebooks\pandas\Lesson10.json'

# read json file
df2 = pd.read_json(jsonloc)
```

In [10]:
```
df2
```

Out[10]:

	Number
0	1
1	2
2	3
3	4
4	5
5	6
6	7
7	8
8	9

In [11]:
```
df2.dtypes
```

Out[11]:
```
Number    int64
dtype: object
```

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