**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, 12:37:52) [MSC v.1500 64 bit (AMD64)]

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