**Lesson 9¶**

Export data from a microdost sql database to cvs, excel, and txt.

In [1]:

*# Import libraries*

**import** **pandas** **as** **pd**

**import** **sys**

**from** **sqlalchemy** **import** create\_engine, MetaData, Table, select

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

**Grab Data from SQL¶**

In this section we use the ***sqlalchemy*** library to grab data from a sql database. Note that the parameter section will need to be modified.

In [3]:

*# Parameters*

ServerName = "RepSer2"

Database = "BizIntel"

TableName = "DimDate"

*# Create the connection*

engine = create\_engine('mssql+pyodbc://' + ServerName + '/' + Database)

conn = engine.connect()

*# Required for querying tables*

metadata = MetaData(conn)

*# Table to query*

tbl = Table(TableName, metadata, autoload=**True**, schema="dbo")

*#tbl.create(checkfirst=True)*

*# Select all*

sql = tbl.select()

*# run sql code*

result = conn.execute(sql)

*# Insert to a dataframe*

df = pd.DataFrame(data=list(result), columns=result.keys())

*# Close connection*

conn.close()

print 'Done'

Done

All the files below will be saved to the same folder the notebook resides in.

**Export to CSV¶**

In [4]:

df.to\_csv('DimDate.csv', index=**False**)

print 'Done'

Done

**Export to EXCEL¶**

In [5]:

df.to\_excel('DimDate.xls', index=**False**)

print 'Done'

Done

**Export to TXT¶**

In [6]:

df.to\_csv('DimDate.txt', index=**False**)

print 'Done'

Done