

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, 1:
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

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