

## Using North America Compustat and WRDS with the FSA Module

The Financial Statement Analysis Module (FSA Module) provides a powerful addition for any school subscribing to the combination of WRDS and Compustat. The Module can directly process CSV files downloaded from Compustat/WRDS, whether the file has data on 5 or 5000 companies.

The conceptual framework of the FSA module, together with the ease of data access from Compustat/WRDS, is an enormously powerful way to conduct financial statement analysis on “Big Data.” You can tease out trends, compare companies along different dimensions, and screen companies. The graphical tools provide a way for discovering relationships that a bunch of numbers may mask.

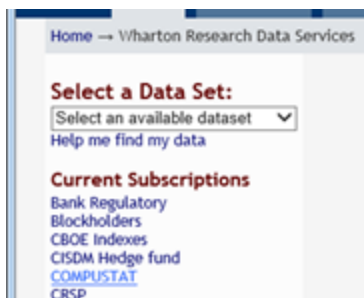
### Downloading Compustat Data from WRDS

**Step 1:** You need either the ticker symbol or the GVKEY for each of stocks you want to download. A simple way to manage tickers is to keep them in an Excel workbook. Then, you can copy and paste to create different subsets of tickers. The tickers should be in a row.

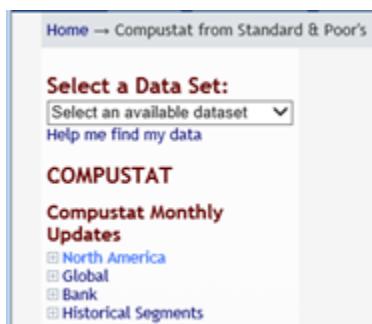
**Step 2:** Now copy the all tickers from row 2 starting in column I above across and then log into WRDS using the login screen below:



Once you have logged in then select the Compustat data base by clicking on Compustat:



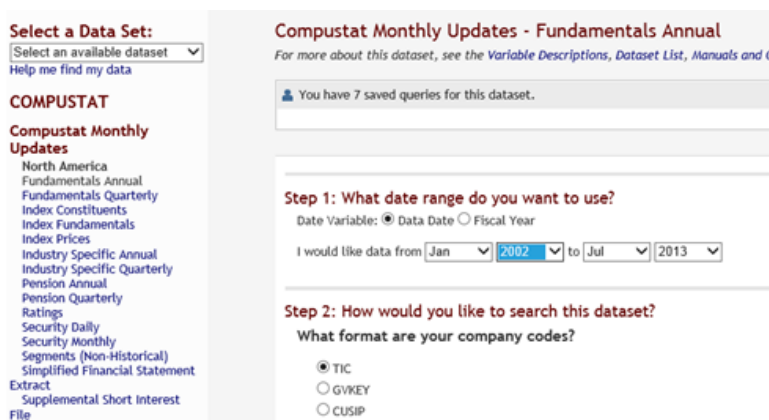
In Compustat you are then prompted for whether this is North America, Global etc.,.



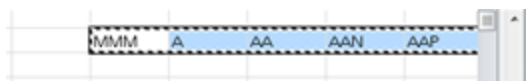
Select North America and for an analysis of the annual data select Fundamentals Annual:



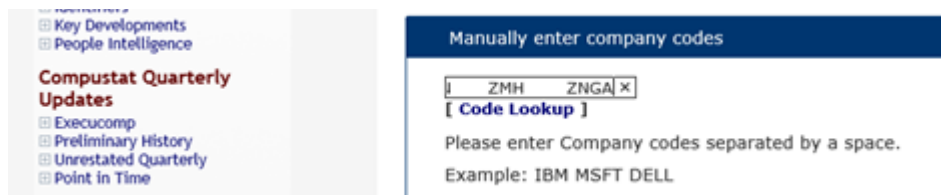
**Step 3:** Select your desired date range and select TIC if you are using Tickers or GVKEY if you are using the GVKEY. This is illustrated below:



You can either type in the tickers, or, if you have them in Excel, copy them in Excel:

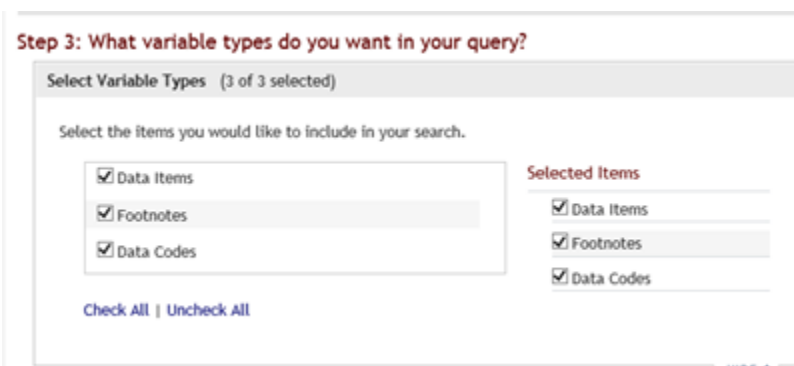


Then, paste the tickers into WRDS (the last ticker being ZNGA in the example below):

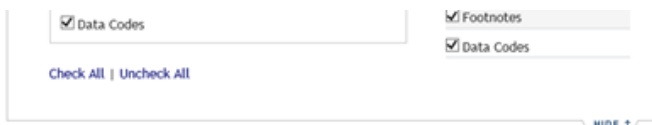


## Step 4: Specifying the fields

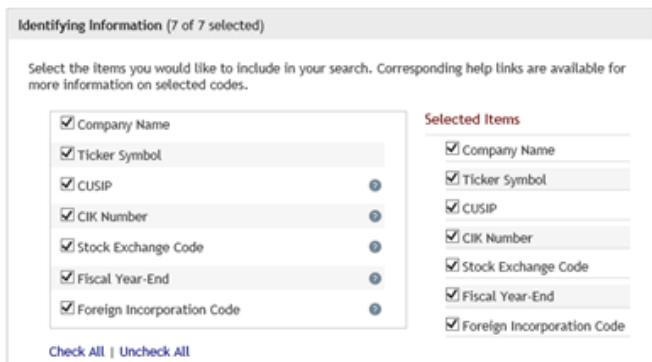
For this step it is easier to let the FSA Module do the work for you. So **select All Data for these tickers**. This ensures that you have not missed any relevant fields. In WRDS, this is their step 3 and selecting all data requires clicking on “**Check All:**”



Then repeat this for each data type in the wrds query:



How does this work?



**Identifying Information, cont. (34 of 34 selected)**

Select the items you would like to include in your search. Corresponding help links are available for more information on selected codes.

<input checked="" type="checkbox"/> ADD1 -- Address Line 1	<b>Selected Items</b>
<input checked="" type="checkbox"/> ADD2 -- Address Line 2	
<input checked="" type="checkbox"/> ADD3 -- Address Line 3	
<input checked="" type="checkbox"/> ADD4 -- Address Line 4	
<input checked="" type="checkbox"/> ADDZIP -- Postal Code	
<input checked="" type="checkbox"/> BUSDESC -- S&P Business Description	
<input checked="" type="checkbox"/> CITY -- City	

**Company Descriptor (25 of 25 selected)**

Select the items you would like to include in your search. Corresponding help links are available for more information on selected codes.

<input checked="" type="checkbox"/> ACCTCHG -- Adoption of Accounting Changes	<b>Selected Items</b>
<input checked="" type="checkbox"/> ACCTSTD -- Accounting Standard	
<input checked="" type="checkbox"/> ACQMETH -- Acquisition Method	
<input checked="" type="checkbox"/> ADRR -- ADR Ratio	
<input checked="" type="checkbox"/> AJEX -- Adjustment Factor (Company) - Cumulative by Ex-Date	
<input checked="" type="checkbox"/> AJIP -- Adjustment Factor (Company) - Cumulative by Pay-Date	
<input checked="" type="checkbox"/> BSPR -- Balance Sheet Presentation	

**Balance Sheet Items (382 of 382 selected)**

Select the items you would like to include in your search. Corresponding help links are available for more information on selected codes.

<input checked="" type="checkbox"/> ACCO -- Acceptances Outstanding	<b>Selected Items</b>
<input checked="" type="checkbox"/> ACDO -- Current Assets of Discontinued Operations	
<input checked="" type="checkbox"/> ACO -- Current Assets Other Total	
<input checked="" type="checkbox"/> ACODO -- Other Current Assets Excl Discontinued Operations	

**Income Statement Items (328 of 328 selected)**

Select the items you would like to include in your search. Corresponding help links are available for more information on selected codes.

<input checked="" type="checkbox"/> ACCHG -- Accounting Changes Cumulative Effect	<b>Selected Items</b>
<input checked="" type="checkbox"/> ADPAC -- Amortization of Deferred Policy Acquisition Costs	
<input checked="" type="checkbox"/> AM -- Amortization of Intangibles	
<input checked="" type="checkbox"/> AMDC -- Amortization of Deferred Charges	

**Cash Flow Items (66 of 66 selected)**

Select the items you would like to include in your search. Corresponding help links are available for more information on selected codes.

<input checked="" type="checkbox"/> AFUDCC -- Allowance for Funds Used During Construction (Cash Flow)	<b>Selected Items</b>
<input checked="" type="checkbox"/> AFUDCI -- Allowance for Funds Used During Construction (Investing) (Cash Flow)	
<input checked="" type="checkbox"/> AMC -- Amortization (Cash Flow) - Utility	
<input checked="" type="checkbox"/> AOLOCH -- Assets and Liabilities Other Net Change	

**Miscellaneous Items (84 of 84 selected)**

Select the items you would like to include in your search. Corresponding help links are available for more information on selected codes.

<input checked="" type="checkbox"/> ACQAO -- Acquired Assets > Other Long-Term Assets	<b>Selected Items</b>
<input checked="" type="checkbox"/> ACQCSHI -- Shares Issued for Acquisition	
<input checked="" type="checkbox"/> ACQGDVIL -- Acquired Assets - Goodwill	
<input checked="" type="checkbox"/> ACQJC -- Acquisitions - Current Income Contribution	

**Supplemental Data Items (17 of 17 selected)**

Select the items you would like to include in your search. Corresponding help links are available for more information on selected codes.

<input checked="" type="checkbox"/> NAICSH -- North America Industrial Classification System - Historical	<b>Selected Items</b>
<input checked="" type="checkbox"/> SICH -- Standard Industrial Classification - Historical	
<input checked="" type="checkbox"/> ADJEX_C -- Cumulative Adjustment Factor by Ex-Date - Calendar	
<input checked="" type="checkbox"/> ADJEX_F -- Cumulative Adjustment Factor by Ex-Date - Fiscal	

Once you have selected all you now indicate the File Format you want the data in. Check “comma-delimited text (.csv)” as shown below:

**Step 4: How would you like the query output?**

Select the desired **format** of the output file. For large data requests, select a compression type to expedite downloads. If you enter your email address, you will receive an email that contains a URL to the output file when the data request is finished processing.

<b>Output format</b>	<b>Compression Type</b>
<input type="radio"/> fixed-width text (*.txt)	<input checked="" type="radio"/> None
<input checked="" type="radio"/> comma-delimited text (*.csv)	<input type="radio"/> zip (*.zip)
<input type="radio"/> Excel Spreadsheet (*.xlsx)	<input type="radio"/> gzip (*.gz)
<input type="radio"/> tab-delimited text (*.txt)	

**Data Format**

Then click on the Submit Query button at the bottom of the page:

**SUBMIT QUERY**

WRDS will then create this file within a minute or two:

### Data Request Summary

Data Request ID	19fd512306a9fd3f
Libraries/Data Sets	compm/funda /
Frequency/Date Range	ann / Jan 2002 - Jul 2013
Search Variable	TIC
Input Codes 1 Item(s)	IBM A AA AAN AAP AAPL ABC ABT ACAS
Conditional Statements	n/a
Output format/Compression	csv /
Variables Selected	CONSOL INDFMT DATAFMT POPSRC CURCD COSTAT CONM TIC CUSIP CIK EXCHG FYR FIC ACCTO
Extra Variables and Parameters Selected	C INDL STD

[ Cancel This Query ]

Your request is being processed. When finished, the output will be found at:  
<http://wrds-sol1.wharton.upenn.edu/output/19fd512306a9fd3f.html?>

This page will refresh every 10 seconds until the output appears.

Once it is created it appears as follows:

### Data Request Summary

Data Request ID	19fd512306a9fd3f
Libraries/Data Sets	compm/funda /
Frequency/Date Range	ann / Jan 2002 - Jul 2013
Search Variable	TIC
Input Codes 1 Item(s)	IBM A AA AAN AAP AAPL ABC ABT ACAS
Conditional Statements	n/a
Output format/Compression	csv /
Variables Selected	CONSOL INDFMT DATAFMT POPSRC CURCD COSTAT CONM TIC CUSIP CIK EXCHG FYR FIC ACCTO
Extra Variables and Parameters Selected	C INDL STD

Your output is complete. Click on the link below to open the output file.

[19fd512306a9fd3f.csv](#) (43.7 MB, 10424 observations 1764 variables)

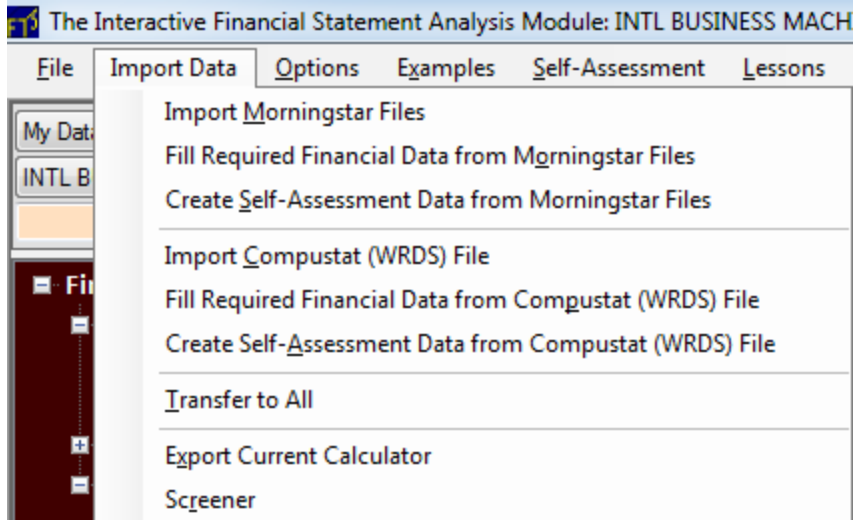
Download instructions

Internet Explorer and Firefox users... Right-click and select "Save Target As..."

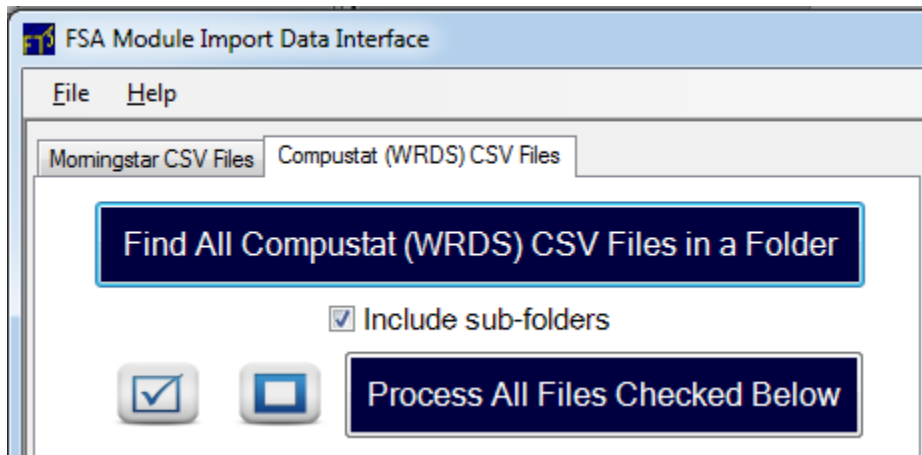
**Save the file** into a folder of your choice on your computer. As shown in the WRDS instructions, you can right click and select "Save Target As..." after which you will be prompted for a folder.

## Step 5: Reading the .CSV file from words into the FSA Module

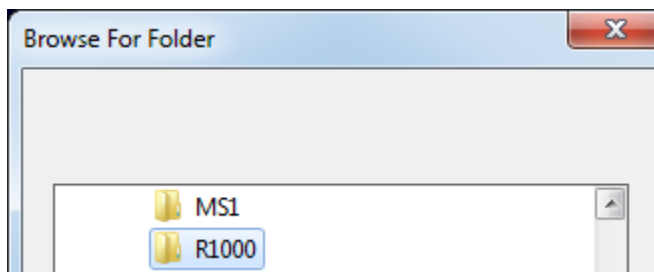
Launch the FSA Module and select Import Data:



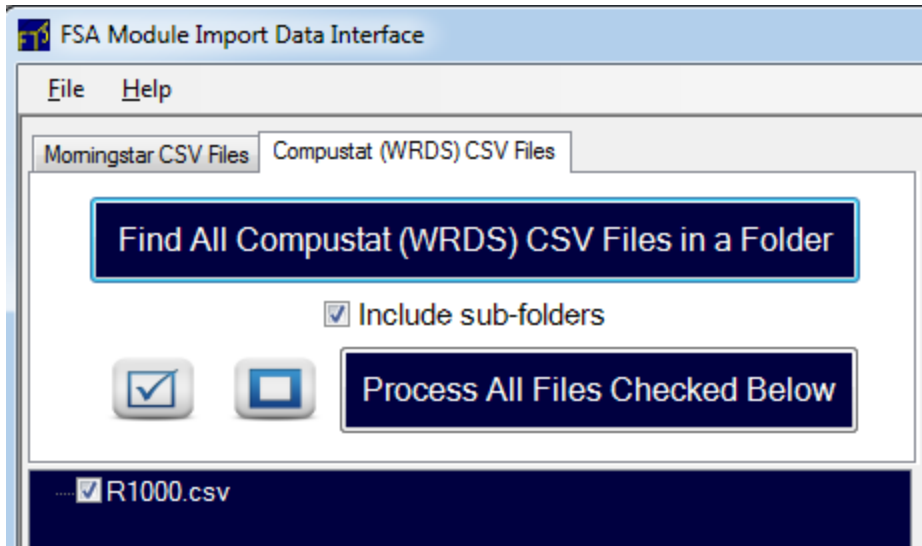
Next click on Import Compustat (WRDS) File:



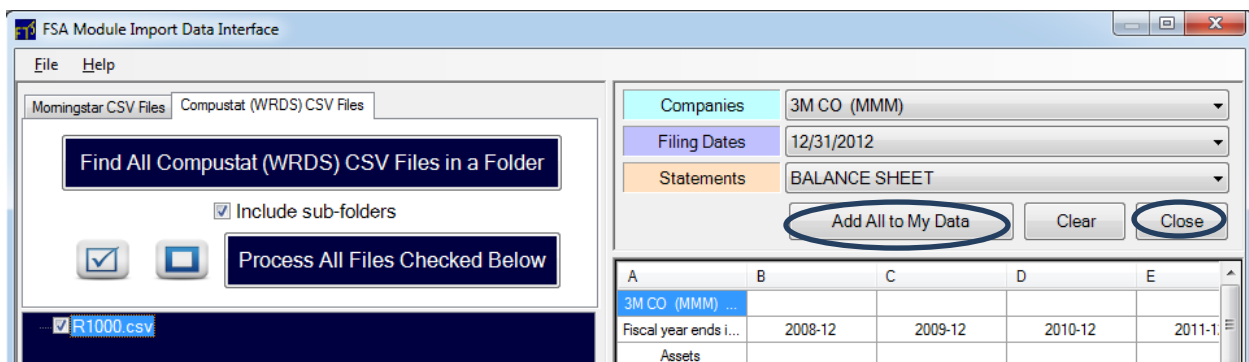
Click on Find All Compustat (WRDS) CSV Files in a Folder and select the folder you saved the WRDS file into:



Click OK and your saved .CSV file will now appear (along with any other files you have in this folder):



Click on Process All Files Checked Below and once processed (processing lasts for 20-30 seconds) you can then Add All to My Data by clicking on the button circled below followed by Close:

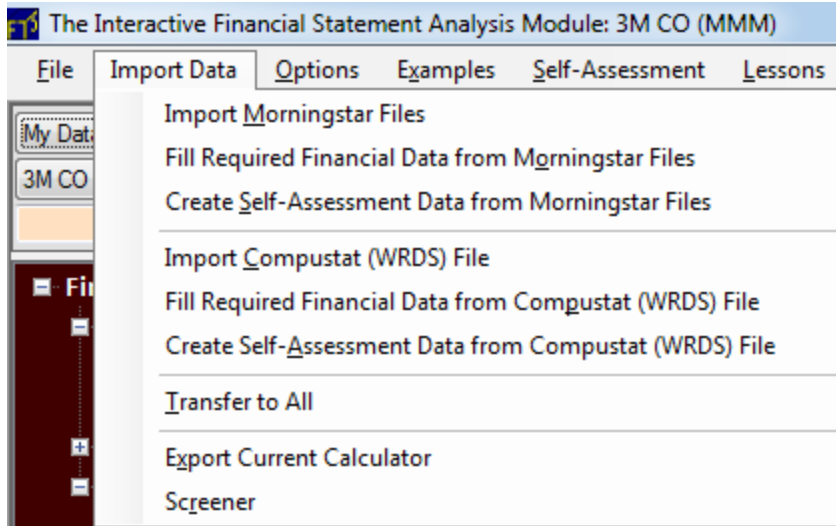


The Compustat data is now linked to the FSA Module:

To complete the linking process and to populate all calculators automatically the final two clicks are:

1. Select Fill Required Financial Data from Compustat (WRDS) file
2. Transfer to All





That is it! You can access all the data from the RTFTS 1000 case in any calculator in the FSA Module so for example you can view for any stock the Cash Flow Margins as illustrated at the beginning for IBM for all of the years you have selected from Compustat.