Financials & equities

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Maarten Gubbels

Data support – NSM Library team

Feb 16th & 25th 2020
What’s the plan?

- Support

- About the databases

- FactSet basics
  - Index constituents (= example of defining sample)
  - Financials
  - Stock prices
  - Index returns

- Eikon/ Datastream basics
Support

- Contact the data librarians: datasupport-NSM@ubn.ru.nl
  - (short questions or make appointment)

- Mention: topic, sample and variables & historical timeframe, supervisor

- Visit our office: EOS 01.545

- Follow-up workshops as of March 4th

- https://libguides.ru.nl/be/data

- https://libguides.ru.nl/BE/FAQdata
Support

- **Eikon**: help (in desktop version)
- Contact with Eikon helpdesk *always* through the NSM data librarians
- **FactSet**: help → online assistant
- Elaborate help-section with e-learning, tipsheets etc.
- Contact us or the FactSet helpdesk yourself
Selected content

FactSet and Eikon are a huge databases, with e.g.

- Aggregated accounting data & financial ratios for listed companies
- Historical stock prices, index returns, futures, options, bonds etc.
- Environmental, social and governance (CSR/ESG) data (Eikon only!)
- Exchange rates
- Macroeconomic data
- News, M&A, venture capital, private equity deals
- Company profiles, filings, league tables, real time data etc.
Considerations

- Very suitable for historical time series: coverage, depends on data type – usually at least c. 15 years, for equities up to 40 years
- Eikon/ Datastream is most suitable for huge amounts of data
- Mainly listed companies (non listed companies → consider Orbis)
- Mainly financial data (board related data → consider BoardEx)
- Coverage China limited (consider → CSMAR)
- M&A/event studies → modules in FactSet and Zephyr

For FactSet and Eikon some Excel skills are required!
Access: FactSet

- Through desktop version & Excel add-in (& webversion)
- Available on campus (computers in MSc and Central Library) and off-campus
- Account required → get one through the data librarians (datasupport-NSM@ubn.ru.nl)
- Processing account can take up to 1 week
- Download the software on your own device
FactSet: index constituents

Use the universal screening tool to create a sample, e.g. CAC 40 firms 2010-2011
FactSet: index constituents

Define your sample in 3 steps:
1. Apply criteria
2. Add static variables
3. Export to Excel to get historical data
FactSet: index constituents

Search for the indices/stock exchanges you need to get the constituents

In this case CAC 40.

Remove default index (S&P 500)
FactSet: index constituents

You get the *current* constituents by default.

To get historical index constituents (in this case 2010) → click on the formula bar (turns yellow) → change

**FG_CONSTITUENTS(180454,0,CLOSE)**

to

**FG_CONSTITUENTS(180454,1/1/2010,CLOSE)**

(or the year you need)
FactSet: index constituents

Add additional index formulas and change them to get constituents of other years.

You’ll see the number of results increase as the firms are added in the bottom of the screen.
FactSet: index constituents

Once finished defining your sample → add (static) variables in the bottom of your screen and remove useless variables.

Historical time series must downloaded in Excel

Always add identifiers like the ISIN code!
FactSet: index constituents

Export to Excel
FactSet: financials

Make a new sheet → copy the codes in column A

Add start and end dates for the years you need
Format the sheet (e.g. add variable names and years)
FactSet: financials

First get the data for one firm ➔ open the FactSet sidebar
FactSet: financials

Search & select the variable you need (e.g. total assets)

Select inputs and *use cell reference for dates* (e.g. B1 and B2)

Finally, set the layout options, in this case horizontal with no dates or company dates

Cells turn green with the output (preview); click insert to finalize
FactSet: financials

In order to properly apply the data request for all the firms, change the formula in the first input (B5) – add $-signs to “hold” cell references while using fill-handle

=FD SR(A5;"FF_ASSET("&B3&","&B4&")…

to

=FD SR(A5;"FF_ASSET("&$B$3&","&$B$4&")… and press *ctrl-shift-enter* (to make an array formula)

Now select all the cells with data (here B5:D5) and use the fill-handle to copy the data right for all the codes
FactSet: financials

FactSet does not (always) automatically downloads the new data (you get #Calc) → click ‘Refresh’ in FactSet-tab
FactSet: financials

To get the data in your dataset → copy and use paste special (right mouse click) to *paste as values* behind your data

Or paste in another sheet and use =VLOOKUP to add to an existing dataset (with the FactSet firmID’s)

What are the units: thousands, millions?
**FactSet: stock prices**

Same workflow, but select a stock variable (like price or return)

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>N</th>
<th>O</th>
<th>P</th>
</tr>
</thead>
<tbody>
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<td>20.21</td>
<td>33.18</td>
<td>111.91</td>
<td>101.35</td>
<td>45.87</td>
<td>82.94</td>
<td>74.28</td>
<td>85.96</td>
<td>51.94</td>
<td>58.67</td>
<td>27.37</td>
<td>70.88</td>
<td>25.01</td>
<td>110.68</td>
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<td>458835</td>
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<td>471279</td>
<td>483410</td>
<td>487419</td>
<td>517517</td>
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<td>31-12-2009</td>
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<td>20.21</td>
<td>33.18</td>
<td>111.91</td>
<td>101.35</td>
<td>45.87</td>
<td>82.94</td>
<td>74.28</td>
<td>85.96</td>
<td>51.94</td>
<td>58.67</td>
<td>27.37</td>
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<td>25.01</td>
<td>110.68</td>
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<td>76.74</td>
<td>87.83</td>
<td>56.16</td>
<td>59.52</td>
<td>28.36</td>
<td>72.74</td>
<td>25.64</td>
<td>115.06</td>
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<td>05-01-2010</td>
<td>64.03</td>
<td>20.10</td>
<td>33.92</td>
<td>113.26</td>
<td>101.77</td>
<td>48.68</td>
<td>86.04</td>
<td>78.56</td>
<td>86.66</td>
<td>55.23</td>
<td>59.14</td>
<td>28.31</td>
<td>73.32</td>
<td>26.56</td>
<td>113.21</td>
</tr>
<tr>
<td>06-01-2010</td>
<td>54.20</td>
<td>20.24</td>
<td>34.35</td>
<td>112.04</td>
<td>102.55</td>
<td>49.54</td>
<td>87.42</td>
<td>78.49</td>
<td>86.33</td>
<td>56.47</td>
<td>59.42</td>
<td>27.95</td>
<td>73.56</td>
<td>25.42</td>
<td>111.60</td>
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<tr>
<td>07-01-2010</td>
<td>53.24</td>
<td>20.34</td>
<td>34.61</td>
<td>111.86</td>
<td>103.28</td>
<td>49.82</td>
<td>86.50</td>
<td>78.86</td>
<td>85.64</td>
<td>56.87</td>
<td>58.96</td>
<td>27.74</td>
<td>75.72</td>
<td>24.98</td>
<td>111.47</td>
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<td>08-01-2010</td>
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<td>20.56</td>
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<td>56.42</td>
<td>57.53</td>
<td>27.41</td>
<td>74.81</td>
<td>24.83</td>
<td>115.00</td>
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<tr>
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<td>21.06</td>
<td>36.81</td>
<td>113.46</td>
<td>107.11</td>
<td>49.68</td>
<td>88.76</td>
<td>82.22</td>
<td>85.10</td>
<td>67.04</td>
<td>58.70</td>
<td>27.89</td>
<td>76.73</td>
<td>26.16</td>
<td>117.95</td>
</tr>
</tbody>
</table>

Do not paste them in your master data sheet, create & select vertical layout → merge in Stata
FactSet: index performance

Search for the identifier of the index (magnifying glass) → connect with the variable you need (usually price or returns) and customize output
Access: Eikon

- Available on 4 terminals in EOS, room 01.570
- Book timeslots of 2 hours (2x a week) through the Library Team (infofm@ubn.ru.nl)
  state in the subject: ‘Eikon reservation’
- Check availability in the Eikon Calendar → https://libguides.ru.nl/BE/Eikon
Eikon: basics

- Eikon / Datastream consists of 2 separate databases:
  - a ‘desktop version’ mainly for real time data, company profiles, screening etc.
  - an Excel add-in called ‘Thomson Reuters Datastream’ for most historical time series data

- Eikon desktop also has an Excel add-in, called ‘Thomson Reuters’
Eikon: financials

Data retrieval from Eikon in Excel, 2 basic ways:

**Static request**

or

**Time series request**
Eikon: financials

Time series request

Choose series (e.g. companies)

Case: R&D expenses of Shell, BP and Exxon Mobile, 2014-2017
Eikon: financials

Time series request
1. Search for companies [red] – search is very sensitive!
2. select as many companies as you like
3. Always search in the appropriate category! (here: equities) [green]
4. After you’re done, click ‘use’ [pink]
Eikon: financials

Time series request

Choose datatypes (variables)
Eikon: financials

Time series request
Choose as many datatypes as you like
As long as:
- They are in the same category as the series (here: equities)
- Have the same interval (e.g. yearly)
- Are not static
Eikon: financials

Time series request

Click on an item for a definition
Eikon: financials

Time series request
Select always at least the (start) date(s) and the interval
Eikon: financials

Time series request
Adjust some more (optional) – just play with it!

change currency
transpose output
display currency
embed to be able to edit it later
Eikon: financials

Time series request
Display custom header to add static variables (e.g. ISIN code, industry codes)

*Make sure you choose static variables here!*

And submit!
Eikon: financials

Time series request
The result → R&D expenses of 3 companies, with name, SIC (=industry code), ISIN, currency and values

<table>
<thead>
<tr>
<th>Name</th>
<th>ISIN</th>
<th>CURRENCY</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>BP PLC - RESEARCH &amp; DEVELOP</td>
<td>GC0007980591</td>
<td>£</td>
<td>402819</td>
<td>274312</td>
<td>297516</td>
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</tr>
<tr>
<td>ROYAL DUTCH SHELL - RESEARCH &amp; DEVELOPMENT</td>
<td>GB00B83MUX29</td>
<td>£</td>
<td>925469</td>
<td>990979</td>
<td>918704</td>
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<td>DIXON MOBIL CORP - RESEARCH &amp; DEVELOPMENT</td>
<td>US0323315022</td>
<td>US</td>
<td>571000</td>
<td>1058000</td>
<td>1058000</td>
<td></td>
</tr>
</tbody>
</table>

To edit the output -> select cell ‘Name’ (A1) and click ‘edit request’
Eikon: stock prices

Time series request
Works more or less the same; take as many companies as you like, but:

- Take daily prices (week, month, year is no average!) or calculate average with Eikon formula
- Optional: to avoid ‘padding’ (same price on some non-trading days as day before), use P#S
Eikon: stock prices

Time series request
Result (not transposed):

<table>
<thead>
<tr>
<th>Name</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>WCO7021</td>
<td>2911</td>
<td>1311</td>
<td>2911</td>
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<td></td>
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<tr>
<td>CURRENCY</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
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<td>1-1-2014</td>
<td>2-1-2014</td>
<td>3-1-2014</td>
<td>4-1-2014</td>
<td>5-1-2014</td>
</tr>
<tr>
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<td>488.85</td>
<td>487.9</td>
<td>488.95</td>
<td>494</td>
<td>492.85</td>
</tr>
<tr>
<td>Price (E)</td>
<td>25.92</td>
<td>26.065</td>
<td>25.81</td>
<td>26.03</td>
<td>25.965</td>
</tr>
<tr>
<td>Price (E)</td>
<td>99.75</td>
<td>99.51</td>
<td>99.66</td>
<td>101.07</td>
<td>100.74</td>
</tr>
<tr>
<td>Price (E)</td>
<td>99.76</td>
<td>99.76</td>
<td>99.76</td>
<td>100.52</td>
<td>100.52</td>
</tr>
<tr>
<td>Price (E)</td>
<td>98.55</td>
<td>99.12</td>
<td>98.78</td>
<td>98.94</td>
<td>99.16</td>
</tr>
<tr>
<td>Price (E)</td>
<td>98.34</td>
<td>98.34</td>
<td>98.34</td>
<td>98.34</td>
<td>98.34</td>
</tr>
<tr>
<td>Price (E)</td>
<td>98.34</td>
<td>98.34</td>
<td>98.34</td>
<td>98.34</td>
<td>98.34</td>
</tr>
<tr>
<td>Price (E)</td>
<td>98.34</td>
<td>98.34</td>
<td>98.34</td>
<td>98.34</td>
<td>98.34</td>
</tr>
<tr>
<td>Price (E)</td>
<td>98.34</td>
<td>98.34</td>
<td>98.34</td>
<td>98.34</td>
<td>98.34</td>
</tr>
<tr>
<td>Price (E)</td>
<td>98.34</td>
<td>98.34</td>
<td>98.34</td>
<td>98.34</td>
<td>98.34</td>
</tr>
</tbody>
</table>
Eikon: index constituents

Static request
Find series to search for the index.

Constituents are available in lists per index

Case: companies AEX, March 2012
Eikon: index constituents

Static request
Search for the index (AEX) in the category constituent lists.
Eikon: financials

Static request
Click on the blue code (LAMSTEOE) to select it.
(you can select multiple lists one by one)
Eikon: index constituents

Static request
By default you get the current companies on the AEX → add month and last 2 digits of the year to the code to get the historical constituents.
E.g. LAMSTEOE March 2012 = LAMSTEOE0312

Add necessary static datatypes:
e.g. name, ISIN, mnemonic (Datastream code) etc.
Eikon: index constituents

**Static request**

**Result:**

You can do multiple months/years in one request

Use the ISIN-codes/mnemonics to retrieve financial data.

<table>
<thead>
<tr>
<th>Type</th>
<th>NAME</th>
<th>ISIN CODE</th>
<th>MNEMONIC</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AEGON</td>
<td>NL0000830709</td>
<td>H:AGN</td>
</tr>
<tr>
<td></td>
<td>KONINKLIJKE AHOUL DELHAIZE</td>
<td>NL001794037</td>
<td>H:AD</td>
</tr>
<tr>
<td></td>
<td>AIR FRANCE-KLM</td>
<td>FR0000031122</td>
<td>F:UTA</td>
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<tr>
<td></td>
<td>AKZO NOBEL</td>
<td>NL000009132</td>
<td>H:AKZA</td>
</tr>
<tr>
<td></td>
<td>APERAM</td>
<td>LU030997404</td>
<td>H:APAM</td>
</tr>
<tr>
<td></td>
<td>ARCELORMITTAL</td>
<td>LU159875767</td>
<td>H:MT</td>
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<tr>
<td></td>
<td>ASML HOLDING</td>
<td>NL001072521</td>
<td>H:ASML</td>
</tr>
<tr>
<td></td>
<td>BOSKLAS WESTMINSTER</td>
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<td>H:BOSK</td>
</tr>
<tr>
<td></td>
<td>CORIO DEAD - 01/04/15</td>
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<td>H:VIB</td>
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<tr>
<td></td>
<td>DSM KONINKLIJKE</td>
<td>NL0000095827</td>
<td>H:DSM</td>
</tr>
<tr>
<td></td>
<td>FUGRO</td>
<td>NL0000352560</td>
<td>H:FUR</td>
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<td>HEINEKEN</td>
<td>NL000009166</td>
<td>H:HEB</td>
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<td>ING Groep</td>
<td>NL0011822102</td>
<td>H:INGA</td>
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<td>H:KPN</td>
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<td>H:SBMO</td>
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<td>H:TNTE</td>
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<td></td>
<td>WOLTERS KLUWER</td>
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<td>H:WSG</td>
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</tbody>
</table>
Eikon: index performance

Time series request
Choose an index (or multiple indices) as series in the category *equity indices*.

Case: S&P 100 and FTSE 100 daily price and return index, last 5 years.
Eikon: index performance

Time series request
Choose appropriate datatypes (category *equity indices*), e.g. Return Index (RI) and Price Index (PI). Choose RI#S and PI#S to avoid padding on non-trading days.

![Time Series Request](image)

<table>
<thead>
<tr>
<th>Name</th>
<th>FTSE 100</th>
<th>FTSE 100</th>
<th>S&amp;P 100</th>
<th>S&amp;P 100</th>
<th>TOT RETURN IND</th>
<th>S&amp;P 100</th>
<th>PRICE INDEX</th>
</tr>
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<tr>
<td>19-2-2013</td>
<td>4501,54</td>
<td>0379,07</td>
<td>1229,83</td>
<td>689,16</td>
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<td></td>
</tr>
<tr>
<td>20-2-2013</td>
<td>4516,55</td>
<td>0393,37</td>
<td>1216,77</td>
<td>681,95</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21-2-2013</td>
<td>4445,19</td>
<td>8291,24</td>
<td>1210,77</td>
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Three things to (definitely) remember

- 2 steps: create sample & get the data (Excel add-in)
- Always request identifiers (especially the ISIN-code)
- Come to follow-up workshops from March 4th onwards for assistance
  https://libguides.ru.nl/BE/workshops

ANY QUESTIONS?