…getting started using the Analytics Website

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WELCOME

- Thomson One Banker-Analytics is the most comprehensive Web-based research and analytics tool available-- delivering unparalleled breadth and depth of global company information.

- Through an intuitive interface, Thomson One Banker-Analytics combines industry-leading content and sophisticated functionality to help you act with precision, depth, and ease when every second counts.
## INDUSTRY LEADING FUNDAMENTALS

<table>
<thead>
<tr>
<th>PROVIDER</th>
<th>DATA TYPE</th>
<th># OF DATA ITEMS</th>
<th>COMPANY COVERAGE</th>
<th>CONTENT</th>
<th>HISTORY</th>
<th>UPDATES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thomson Worldscope Fundamental Data</td>
<td>Standardized</td>
<td>615</td>
<td>More than 28,500 active and 9,500 inactive companies representing more than 55 established and emerging markets; covers nearly 98% of the world’s stock market value</td>
<td>Company profile, Financials and Accounting Results (standardized to Facilitate cross-country comparison) and market and per-share Date</td>
<td>Annual from 1980; limited interim data going back 32 quarters; monthly prices from 1980</td>
<td>Daily</td>
</tr>
<tr>
<td>Compustat Fundamental Database</td>
<td>Standardized</td>
<td>54</td>
<td>More than 10,500 active and 11,069 inactive U.S. Companies</td>
<td>Company profile, Financials and accounting results (standardized to Facilitate cross-country comparison)</td>
<td>Annual from 1980; interim data going back 32 quarters; monthly prices from 1981</td>
<td>Daily</td>
</tr>
<tr>
<td>Thomson Extel Financials</td>
<td>As reported</td>
<td>1,200</td>
<td>Extensive coverage of &quot;as reported&quot; fundamental financial information including over 17,700 active companies representing more than 71 established and Emerging Markets</td>
<td>Company profile, as reported financials and accounting results, and market and per-share data</td>
<td>Annual from 1985</td>
<td>Weekly</td>
</tr>
<tr>
<td>Thomson Disclosure SEC Database</td>
<td>As reported</td>
<td></td>
<td>More than 12,700 active U.S. and Canadian companies</td>
<td>Company profile, annual and quarterly company financial, pricing information and earning estimates</td>
<td>Annual from 1987; quarterly data rolling 10 years; monthly pricing</td>
<td>Weekly</td>
</tr>
</tbody>
</table>
## Industry Leading Deal Data & Estimates

<table>
<thead>
<tr>
<th>PROVIDER</th>
<th>DATA TYPE</th>
<th># OF DATA ITEMS</th>
<th>COMPANY COVERAGE</th>
<th>CONTENT</th>
<th>HISTORY</th>
<th>UPDATES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thomson M&amp;A and Corporate Transaction Data</td>
<td>Standardized</td>
<td>1,100</td>
<td>Global M&amp;A and corporate transaction data</td>
<td>M&amp;A Deals, New Issue Deals, Loan Deals, and Deal Tearsheets</td>
<td>Since 1998</td>
<td>Daily</td>
</tr>
<tr>
<td>Thomson First Call Estimates</td>
<td>Current Estimates</td>
<td>812</td>
<td>63,000 equity issues covering 45,000 companies in 50 established and emerging markets</td>
<td>Consensus/Detail Information, P/E, Recommendations, Sales, EBITDA, EPS</td>
<td>Daily</td>
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<tr>
<td>Thomson I/B/E/S History</td>
<td>Historical Consensus Time Series Estimates</td>
<td>130 Exchanges</td>
<td>Over 38,000 companies in 60 established and emerging markets</td>
<td>Historical Consensus Information, P/E, Recommendations, Sales, EBITDA, EPS</td>
<td>US from 1976; International from 1987</td>
<td>Monthly</td>
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</table>
## LEADING HISTORICAL & DELAYED PRICING

<table>
<thead>
<tr>
<th>PROVIDER</th>
<th>DATA TYPE</th>
<th># OF DATA ITEMS</th>
<th>COMPANY COVERAGE</th>
<th>CONTENT</th>
<th>HISTORY</th>
<th>UPDATES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Datastream International Equity and Index Daily Pricing</td>
<td>Historical Time Series</td>
<td>15</td>
<td>International equity and index daily pricing—includes approximately 64,000 equity issues covering 45,000 companies in 65 established and emerging markets</td>
<td>Share price (open, high, low, close, P/E), index and exchange rate data</td>
<td>Daily</td>
<td></td>
</tr>
<tr>
<td>Thomson Delayed Quotes</td>
<td>Quotes</td>
<td>n/a</td>
<td>30,000 quotes covering 130 exchanges in 25 developed countries</td>
<td>Equities and indices; 20 minute delayed quotes; U.S. and global tickers</td>
<td>Rolling 10 Years</td>
<td>20-Minute Delayed</td>
</tr>
<tr>
<td>Interactive Data Corporation</td>
<td>Historical Time series</td>
<td>54</td>
<td>Daily detailed pricing for U.S. equity securities covering 32,000 common and preferred equities</td>
<td>Daily Prices, capitalization changes, earnings, dividends, ex-dates, and shares outstanding</td>
<td>Rolling 10 years</td>
<td>Daily</td>
</tr>
</tbody>
</table>
T1B-A DATA COVERAGE

- **Equity Fundamentals:** standardized, as reported, & as-filed financials
- **Pricing:** 20 minute delayed & daily global pricing
- **Indices:** daily coverage 12,000+ Indices worldwide
- **Estimates:** earnings estimates, forecasts, surprise, and revision reports
- **Peers:** comparables reports—financials, ratio, market, & EPS comparisons
- **Filings:** filings overview with links to EDGAR & Image documents
- **Research:** quick access to research reports from 600+ firms worldwide
- **News:** global news coverage - based on company, industry or portfolio
- **Deal Data:** M&A, New Issue, Loan Deals and Deal Tearsheets
- **Constituent Level Data:** from Thomson Datastream Index Service
LOG INTO T1B-A

- **What is the URL?** http://banker.analitics.thomsonib.com

- **How do I get started?**
  Click the “Login” Link to Open a T1B-A Session – you will be prompted for your ID & PW

- **Who do I call if I have trouble?**
  Click the “Support” Link to access the Help Desk Contact Info.
BASIC LAYOUT

- **Modules**
  Provides Access to Applications Created for Specific Tasks

- **Entity Selection**
  Use to specify the entity(s) to be used during the analysis

- **Portfolio Section**
  Use to create, save, edit, and monitor custom portfolios

- **Online Help**
  Provides Access to Reports and Report Display Options

- **Related Content**
  Quick Links to Frequently Used Reports

- **Main Menu Bar**
  Allows the user to tie a project code to their research
FIND A SPECIFIC COMPANY

- **Step 1**: Click on Searching
- **Step 2**: Choose what to Search By
- **Step 3**: Type Either All or Part of the Name
- **Step 4**: Click Search
- **Step 5**: Click on the Company to Choose it
DIFFERENT TYPES OF COMPANY REPORTS

- **Overview**: full reports & quick snapshots; used to get a quick “overview” of a company
- **Prices**: detailed quotes, performance overviews, price history reports, & interactive charts
- **Financials**: company financial reports (balance sheet, income statement, cash flow, & ratios)
- **Earnings/Dividends**: earnings estimates, forecasts, surprise, and revision reports
- **Peers**: quick comparables reports—financials, ratio, market, and earnings comparisons
- **Filings**: filings overview with links to EDGAR & Image documents
- **Research**: quick access to investment research reports from 600+ investment banking firms worldwide
- **Deals**: M&A, New Issue, Loan Deals and Deal Tearsheets
- **News**: recent news headlines
- **Report Writer**: build simple single company reports

Each Menu Contains Reports from Multiple Sources
ACCESSING A SINGLE COMPANY REPORT

Step 1
Enter a Company Identifier
It accepts:
- Name
- Ticker
- CUSIP
- SEDOL
- ISIN
- Valor
- Datastream
- Ticker

Step 2
Choose the Type of Report To View

Step 3
Choose a Report
The pull-down menus contain reports from multiple databases, empowering you to tailor your research.
COMPANY REPORTS - INTERACTIVE CHARTS

- **Step 1**
  Access Interactive Charts either by clicking on the prices tab or from the company overview price chart.

- **Step 2**
  Set your criteria by either selecting a set index or your custom index.

- **Step 3**
  Click on Draw to create your chart.

- **Step 4**
  Click on View Data to see the raw data and export to Excel.
COMPANY REPORTS – CHART LIBRARY

Access a variety of charts through the Time Series Charts list.
COMPANY REPORTS – PEER ANALYSIS

Click on the Peers Tab to access peer reports

- **Step 1**

Click on Peer Sets to Compare your base company with other default sets or your custom peer set

- **Step 2**

Browse through other pre-built reports

- **Step 3**

Remember !!!

- Both default and custom peer sets can be saved to your User Folder
- You can export any of the pre-built reports to Excel
COMPANY REPORTS – DEALS

Choose Deal Type:
- Merger & Acquisitions
- Loan Deals
- New Issue

Click to get full deal detail
SCREEN FOR COMPANIES

- **Basic Searching**: universal searching using the 30 most frequently used items
- **Advanced Searching**: universal searching with access to all items available in all databases—over 17,000 items are available for searching, including user defined items
- **Search Library**: 50 of the most frequently requested searches

**Remember!!!**

- All searches can be saved
- All sets can be saved
- You can create your own ratios
CONDUCT A QUICK SCREEN

- **Step 1**
  - Select Your Search Criteria
  - Only Fill In the Items You’re Interested In

- **Step 2**
  - Click Search
VIEW THE SEARCH RESULTS

- **Step 1**
  - **View the Results**
    - Click on the Various Tabs to Scroll Through the Library of Views or Create Your Own
Advanced Searching

Step 1
Click to use Advanced Searching or Save Query
CONDUCT AN ADVANCED SEARCH

Step 1
Select Item
Click on one of the item menus and choose an item to search

Step 2
Select Criteria
Enter criteria in expression box

Step 3
Search
Click “Add” to search & view results
USING THE SEARCH EXPRESSION BUILDER

- **Operators**: Refine your criteria with these logic expressions.
- **Properties**: Add mathematical functions to your search criteria.
- **Search Argument**: Automatically updates as you build the search expression.

**Periods**: Search on a current period or a specific date.

**Search Expression Builder**

- **Item**: EarningsBeforeIntTaxesAndDepr
- **Operator**: greater than or equal
- **Value**: 1000

**Expression**: EarningsBeforeIntTaxesAndDepr(CPA)>= 1000
EDIT SEARCH RESULTS CONT.

- **Step 2: Optional**
  Delete search criteria, change order, and/or add new criteria from drop down menu

- **Step 3: Optional**
  Click on a search criteria to modify
ACCESS A COMPANY FROM SEARCH RESULTS

![Thomson Financial interface with search results and company access steps]

- **Step 1**
  - Click on the company name hyperlink.

- **Step 2**
  - Click on the SetLink button to add to the working set.
SAVING SEARCH RESULTS

**Step 1**
Click on the Save Set link.

**Step 2**
Optional
Export the Data

When you see the Excel Link, Click on it to Export the Data to Excel
50 commonly searched request. One simple click brings the user to the search result page. The user has the ability to edit the pre-canned searches.
USER PORTFOLIOS

Remember !!!

- User Folders are stored on a secure web server
- They are password protected
- You can save sets, searches and custom reports
- Saved sets can be downloaded to Excel
- Access to folders can be permissioned among your workgroup

WHERE TO SAVE YOUR SETS:

If you want your sets to be shared, click the folder up icon, and save within the general shared folder.
CREATE/EDIT A COMPANY SET

- **Step 2**
  Start entering tickers and click Add to include in your set. Or use Company Lookup to find tickers.

- **Step 1 & 3**
  Click on relevant icon: New/Open/Save/Edit Set icons to start to make changes to a company set.

- **Step 2**
  Click on the Add icon button to save the selected companies as a set.

Click to perform: **Advanced Searching**

**To find a company:**
1. Enter the text you want to search for and click on the Search button.

Search By: Quote Symbol: LEH
Search Option: Contains
Exclude Inactive Companies: √

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<table>
<thead>
<tr>
<th>Name</th>
<th>Quote/Symbol</th>
<th>CUSIP</th>
<th>Sedol</th>
<th>DS Amount</th>
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<td>524906100</td>
<td>2510723</td>
<td>U:LEH</td>
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<td>LEH</td>
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<td>501922100</td>
<td></td>
<td>C:LEH</td>
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<td>LEH-BROTHERS HOLDINGS</td>
<td>LEH</td>
<td>524906100</td>
<td>2510723</td>
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<tr>
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<td>LEH-BROTHERS HOLDINGS CAPITAL TRUST</td>
<td>LEH,J</td>
<td>525188200</td>
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<td>5716118</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
USER DEFINED ITEMS

User Defined Items allows Thomson ONE Banker-Analytics users to create, store, and use proprietary defined items. These items can be used for searching as well as in custom reports. This can be created through the web application or the Excel Add-in and are usable in both locations.

Step 1

When in the Advanced Searching Tab, select the “Personal” category to open the User Defined Items Lookup Window.

Step 2

Edit or Add Personal items by clicking here.

The details of using user defined items will be discussed in the Excel portion of training.
ACCESSING INDEX INFORMATION

- **Step 1**
  - Enter an Index Identifier
  - It accepts:
    - Name
    - Datastream Mnemonic

- **Step 2**
  - Choose the Type of Report To View

- **Step 3**
  - Choose a Report
  - The pull-down menus contain pre-built and interactive reports and charts, empowering you to tailor your research.
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THOMSON ONE BANKER-ANALYTICS TOOLBAR

- **T1B-A Main Menu**
  - Access Features like:
    - Uploading & Downloading Sets
    - Data & Application Options
    - Wizards
    - Converters
    - Lookups
    - Reports
    - And More...

- **Options**
  - Set the Data & App Options

- **Auto Fill**
  - Use to Create Quick Time Series Across Cells

- **Reports**
  - A Library of over 75 Reports

- **Help**
  - Online Help for the Excel Add-in

- **Database Directory**
  - A List of the Data you have access to.
  - Use to Specify the Database You wish to Retrieve Data from

- **Calculate**
  - Use to Retrieve the data and update your models

- **Lookup Boxes**
  - Entity & Item Lookup Boxes

- **Wizards**
  - Easy to use Wizards to help create reports, pull pricing data, and build comps
LOGGING INTO EXCEL

- Select the Thomson ONE Analytics Dropdown from the toolbar and choose “Login Info”
- Enter your User Name and Password

Remember !!!
✓ This only needs to be done once.
**THOMSON ANALYTICS – Data Options**

- **T1B-A Data Options**
  - Specify global settings for:
    - Currency
    - Scale
    - NAs
  - All cells will reflect these settings unless options are specified on cell by cell basis.
All of the pre-built reports are stored in separate folders under the reports library.
**T1B-A EXCEL WIZARDS**

- **Price Wizard:** download price series data for companies or indices
- **Report Wizard:** quickly build custom reports and download data into Excel for a single company or various company sets
- **Comps Wizard:** quickly build comparable sets and view comp reports ranging from financials to pricing to earnings
- **Searching Wizard:** quickly build query sets based on search criteria you choose, updating and modifying when you choose
- **Function Wizard:** launch formula building wizards

---

There are 5 key Wizards to assist with your research.
USING THE PRICE WIZARD

- **Step 1**: Select The Price Wizard from the Wizards List
- **Step 2**: Select The Items
- **Step 3**: Select Companies, Indices, or Saved Company Sets
- **Step 4**: Select the Start and End Periods
- **Step 5**: Click Finish

Click advanced for options menu (see next slide)
SETTINGS FOR PRICE WIZARD

- **Option 1**
  Select A Database

- **Option 2**
  Select Return as NA, Blank, or Zero if not available

- **Option 3**
  Select Return as DC, Blank, or Zero if it is a data code

- **Option 4**
  Select Workbook Options

- **Option 5**
  Select Desired Scale

- **Option 6**
  Select Adjusted or Unadjusted Share Data

- **Option 7**
  Select Values or Value & Formulas

- **Option 8**
  Select A Layout
USING THE REPORT WIZARD

- **Step 1**: Select The Report Wizard from the Wizards List

- **Step 2**: Select The Items
  You can pick items from multiple databases

- **Step 3**: Select the Companies
  You can select company by company or download a set you’ve saved

- **Step 4**: Select The Start and End Periods

- **Step 5**: Click Next
USING THE REPORT WIZARD (cont)

- **Step 6**
  - Select Worksheet, Data, & Program Options

- **Step 7**
  - Select the Layout
  - You can select among 10 different layouts for the data output

- **Step 8**
  - Click Finish
USING THE COMPS WIZARD

- **Step 1**: Select The Comp Wizard from the Wizards List
- **Step 2**: Select The Database
- **Step 3**: Select Output
  - You can choose Reports, Charts, or both
- **Step 4**: Select The Base Company
- **Step 5**: Select Peer Set
  - You can choose between default or custom
- **Step 6**: Click Next
USING THE COMPS WIZARD (cont.)

- **Step 6**
  Select Pre-Built Reports

- **Step 7**
  Select Functions and Statistics
  Choose from Excel functions, Industry and geographical statistics

- **Step 8**
  Click Finish

---

**Remember !!!**
- Projects can be saved
- Peer sets can be customized
- You can write custom reports
PFDL vs SFDL vs TFDL

**PFDL** - PFDL is modeled after the Excel expression language and is dynamically updated.
- *PFDL is designed to provide users with a high degree of analytical and computational flexibility within formulas, returning one value per formula*

**SFDL** - SFDL is similar to PFDL but retrieves data for a stored company set and returns values
- *PFDL is designed to provide users with a high degree of analytical and computational flexibility within formulas, returning one value per formula*

**TFDL** - TFDL stands for Time-Series Financial Data Language.
- *TFDL is designed as a quick and efficient way to retrieve a data item across a period of time, returning numerous values for one formula, including associated time period if desired.
- *This additional functionality allows users to retrieve data values across a period of time with only one TFDL formula, while maintaining similar syntax to that of PFDL formulas.*
USING PFDL TO RETRIEVE DATA IN EXCEL

- PFDL gets financial data into a single cell & is updatable (like FactSet or FDS codes)

  - **Expression:** The mathematical expression or data item you want to retrieve – I.e. “Sales”
    - Every expression must be preceded by a database prefix (– i.e. “worldscope” or “ws”)
  
  - **Period:** The absolute, date relative, or entity relative period of the item – I.e. “Y2001”, “0Y”, “CPA”
  
  - **Key:** The identifier used to specify the entity – I.e. “MSFT” (can also use CUSIP, SEDOL, or ISIN)
  
  - **Options:** An optional argument to specify the Currency, Scale, etc. of the data – I.e. “GBP”

  **EXAMPLES**

  =PFDL(“cs.netincome/ws.sales”,”Y2001”,”MSFT”,”6,USD”)  
  
  =PFDL(“usp.priceclose[0d]/ws.eps[Y02]”,”MSFT”)  
  
  =PFDL(“cs.businessdescription”,”MSFT”)  
  
  =PFDL(“tmax(usp.priceclose,0d,-1y)”,”MSFT”)

- Expressions can be used w/mathematical arguments
- Period can be associated w/individual items
- Textual data can be retrieved
- Functions can be utilized.
PFDL – HOW TO FIND THE DATA YOU NEED

Step 1: Lookup
Click on item lookup from the lookup dropdown menu on the Add-In Toolbar.

Step 2: Know the Content!
Available content includes 4 fundamental databases, 2 pricing databases, & an estimate database.

<table>
<thead>
<tr>
<th>DATABASE PREFIX</th>
<th>DESCRIPTION</th>
<th>CONTENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>TF</td>
<td>THOMSON FINANCIAL</td>
<td>UNIVERSAL DATABASE</td>
</tr>
<tr>
<td>WS</td>
<td>WORLDSCOPE</td>
<td>INTERNATIONAL FUNDAMENTALS</td>
</tr>
<tr>
<td>CS</td>
<td>COMPUSTAT</td>
<td>US FUNDAMENTALS</td>
</tr>
<tr>
<td>EX</td>
<td>EXTEL</td>
<td>INTERNATIONAL FUNDAMENTALS</td>
</tr>
<tr>
<td>SEC</td>
<td>DISCLOSURE SEC</td>
<td>FILINGS DATA (AS REPORTED)</td>
</tr>
<tr>
<td>FC</td>
<td>FIRSTCALL</td>
<td>EARNINGS ESTIMATES</td>
</tr>
<tr>
<td>IBH</td>
<td>I/B/E/HISTORICAL</td>
<td>HISTORIC EARNINGS ESTIMATES</td>
</tr>
<tr>
<td>DS</td>
<td>DASTREAM</td>
<td>GLOBAL EQUITY &amp; INDEX PRICING</td>
</tr>
<tr>
<td>USP</td>
<td>IDC US PRICING</td>
<td>US EQUITY &amp; INDEX PRICING</td>
</tr>
</tbody>
</table>

Step 3: Choose Database
Access any of the databases from the drop down box.

Step 4: Search Items
Search for items alphabetically or browse items by category.

Step 5: View Definition & Item Properties
View the definition of an item or browse through the various properties of an item. Item properties can also be retrieved in Excel.
PFDL – The Period

- **Step2**: The period is the second argument in the pfdl form. The Period argument contains the period for which the expression is to be evaluated. If period is omitted, the current period is used. The following date types can be used:

  - **Absolute**: Y2001, Q1Y02, JUN00, 10FEB02…
  - **Date Relative**: 0Y, -1Y, -3Q, 0M, -30D, etc.
  - **Entity Relative**: CPA, CPQ, CPM, CPW, CPD (returns the most current period for a company)

The Item Lookup will help you choose your period. Use the drop down for relative dates or click the calendar icon and then choose the appropriate period.

Include period argument codes into the syntax as follows:

- =PFDL ("ds.PriceClose", "CPD", …returns current daily price close from Datastream
- =PFDL("ws.Sales", "Y00", …returns Y00 sales from Worldscope
- =PFDL("cs.EPS", "Q3Y01", …returns EPS for Qtr3 of Y01 from Compustat
- =PFDL("ws.TotalAssets", "-2Y", …returns TA for –2Y from Worldscope

Note: Refer to period quick reference sheet for more examples.
Step 3: Enter the key. The key argument specifies the entity for which the expression is to be evaluated. It can be any valid company or index (for pricing only) identifier:

- Company Ticker
- Sedol
- Cusip
- ISIN
- Thomson Analytics Entity or Index Key (for pricing only)

- **Ticker**
  
  =PFDL("ws.Sales","Y00","IBM") returns Sales for IBM for 2000

- **CUSIP**
  
  =PFDL("cs.EPS","Q3Y00", "459200101") returns EPS for Q3Y2000 using the CUSIP

- **SEDOL**
  
  =PFDL("ws.TotalAssets","-2Y", "2005973") returns total assets two years ago for IBM

- **ISIN**
  
  =PFDL("ws.TotalAssets","cpa", "US4592001014") returns total assets for the latest year for IBM

- **Index Key (for pricing only)**
  
  =PFDL("usp.priceclose[0d]", "I000000001,,INDEX") will retrieve the latest price for the S&P 500
HOW DO I CHANGE DATA IN PFDL (OPTIONAL)?

- **Step 4: Options.** The options argument allows you to alter the meaning of the data item. It is used to address data codes, data availability, scaling, and currencies. It is entered using the following syntax:

- **Data Codes/Availability**
  - Dealing with #NA - When data is not available, pfdl returns #NA. This can be replaced by a blank cell or zero.

- **Scaling**
  - Scaling of data. – Scaling is available as none, thousands, millions, billions, or trillions. Numbers used for this are 0,3,6,9, and 12, respectively.

- **Currency.**
  - Allows you to return data in a target currency: Enter the corresponding ISO code from the currency you in which you want to display the data.

- **Adjusted Data**
  - Allows you to return pricing data on an unadjusted or adjusted basis for splits and other capital changes made by the corresponding database. User can enter either unadj/unadjusted or adj/adjusted, respectively.

**EXAMPLE**

- =PFDL(“ws.DeferredCharges”,“Y00”, “MSFT”,”Z”)  
  - This will return zero, rather than #NA.

- =PFDL(“usp.pricehigh[1JAN00]”,”MSFT”,“ADJ”)  
  - This will return the adjusted price for MSFT.

- =PFDL(“usp.priceclose”,“6/15/02”,”MSFT”,“UNADJUSTED”)  
  - Returns the unadjusted price for MSFT on 6/15/02.

- =PFDL(“ws.sales”,“Y00”,“IBM”,“GBP,3”)  
  - This will return IBM’s annual sales figure for fiscal year 2001 in British Pounds. Multiple options can be entered as displayed to the right. 3 represents thousands for scaling.

**EXPLANATION**

- Note: Refer to options quick reference sheet for more examples.
ENTERING PFDL

- From the Wizards/Function Wizards choose PFDL (or type “=pfdl(“ and then push the Fx button in Excel).

- Let's enter the following into the 4 arguments:
  - TF.SALES
  - Y2001
  - GE
  - EUR

PFDL function in Excel: `=pfdl("TF.SALES","Y2001","GE","EUR")`
CALCULATING PFDL

1. Click the calc button to bring up the calculate form.
2. Click Actvesheet selection to retrieve the data for the following formula.

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<thead>
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<th>A</th>
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<th>C</th>
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The formula to calculate PFDL is: `=pfdl("TF.SALES","Y01","GE","EUR")`
PFDL – Using the Item Lookup to Build Formulas

- **Step 1**
  Lookup
  Click on item lookup from the lookup dropdown menu on the Add-In Toolbar

- **Step 2:** Know the Content!
  Available content includes 4 fundamental databases, 2 pricing databases, & an estimate database.

<table>
<thead>
<tr>
<th>Database</th>
<th>Description</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>TF</td>
<td>Thomson Financial</td>
<td>Universal Database</td>
</tr>
<tr>
<td>WS</td>
<td>Worldscope</td>
<td>International Fundamentals</td>
</tr>
<tr>
<td>CS</td>
<td>Compustat</td>
<td>US Fundamentals</td>
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<tr>
<td>EX</td>
<td>Executuve</td>
<td>International Fundamentals</td>
</tr>
<tr>
<td>SEC</td>
<td>DISCLOSURE SEC</td>
<td>Filings Data (As Reported)</td>
</tr>
<tr>
<td>B</td>
<td>I/B/E/S</td>
<td>Earnings Estimates</td>
</tr>
<tr>
<td>IBH</td>
<td>I/B/E/S History</td>
<td>Historic Earnings Estimates</td>
</tr>
<tr>
<td>DS</td>
<td>DataStream</td>
<td>Global Equity &amp; Index Pricing</td>
</tr>
<tr>
<td>USP</td>
<td>US Pricing</td>
<td>US Equity &amp; Index Pricing</td>
</tr>
</tbody>
</table>

- **Step 3**
  Choose Database
  Access any of the databases from the drop down box.

- **Step 4**
  Search Items
  Search for items alphabetically or browse items by category

- **Step 5**
  Select Company
  Reference Cell or Enter Ticker

- **Step 6**
  Enter Period
  Reference a cell or Enter a Specific Period

- **Step 7**
  Specify Formula Options
  Select only formula or Add Title

- **Step 8**
  Drag Formula to Finish
  Drag or double-click to enter a cell
**AUTOFILL TO POPULATE TIME-SERIES DATA**

- **Step 1:**
  Use Autofill to populate time-series PFDL formulas.

- **Step 2:**
  Select the direction, number of cells, & either back or forward in time.
DATA DOWNLOADS IN EXCEL USING SFDL

- SFDL allows users to retrieve data values (output is values only) for a set of companies with only one SFDL formula, while maintaining similar syntax to that of PFDL formulas.

- **Display Text:** User can enter a title for the name of the field.

- **Direction:** User can specify the direction in which to fill the data.

EXAMPLES

- Compustat & Worldscope are being used to create retrieve the 2001 net margin for a set
  
  \[=\text{SFDL}("cs.netincome/ws.sales","Y2001","Net Margin","6,USD","DOWN")\]

- IDC US Pricing & Worldscope are being used to calculate a P/E ratio for a set
  
  \[=\text{SFDL}("up.priceclose[0d]/ws.eps[Y02]","P/E","DOWN")\]
CALCULATING SFDL

- **Step 1**: Enter SFDL expression in desired cell
- **Step 2**: Click the calculate button
- **Step 3**: Select “Data Download (SFDL)"
- **Step 4**: Select Set. Sets can be selected by:
  - Downloading a saved set
  - Building a saved set on the fly
  - Choosing a range of identifiers within a spreadsheet
- **Step 5**: Click OK to run set request
COMPONENTS OF TFDL

- TFDL fills time-series data (output is values only) in any direction in the spreadsheet, allowing the user to enter the associated period next to the data item, & create a heading for the formula.

- In addition to the other options, user can enter a start & end period.

- Display Text: User can enter a title for the name of the field.

- The corresponding time period can also be added next to the time-series value (i.e. you can have dates precede your item)
**USER DEFINED ITEMS**

Launch the user defined items from the items lookup dropdown.

- **Step 1**

Select Personal from the dropdown menu & Select an item.

- **Step 2**
USER DEFINED ITEMS

Step 3
Right-click, choose Add Field to create new item and enter the formulas you wish to save as user defined items.

Share an Item! If you would like to share an item, simply check the box in the lower right hand corner.

Step 4
Enter the formula and save as a user defined item. Check share box to allow others in your user group to access this item.
T1B-A TRAINING & CUSTOMER SERVICE

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