



# Data Mining Questions

Help Documentation

## Data Mining Report Types

Site administrators and users can choose to generate the following data mining report types:

- **Bandwidth** - This query allows users to track the bandwidth usage, total bandwidth usage, and the IP address of requests for specific files you have placed on your website. This report is most useful in detecting web site abuse. Typically, you will identify a high-bandwidth file from Top Files or a related report item, then start data mining on it to discover if there are a few IP addresses that are attempting to use your bandwidth by repeatedly downloading files. Those IP addresses can then be metered or denied access on your Web server.
- **Daily Activity** - This query allows you to select a single page or resource contained within your website and see the daily activity over time. This type of mining is good to identify trends in the activity of that resource, to see if people are accessing the file more or less than they used to.
- **Entry Pages** - This query allows you to select a single page contained within your website and see the top pages used to access the page. This is a particularly useful form of data mining that allows you to track where people are coming from when they access a specific page. For example, if a page is specified in an advertising campaign or marketing campaign, users can see exactly how people are accessing that page and verify any information that is given by the particular site that contains the advertising.
- **Exit Pages** - This query allows you to select a single page contained within your website and see the last pages people viewed before exiting the website. This is useful in order to track how far users get in a process (such as placing an order) and where they are exiting your site.
- **Query Strings** - This query allows you to view the various query strings that are passed to a particular page of your website. A typical example is the SmarterStats help system. Whenever anyone clicks on the "Help" graphic or a "What is this?" link within a specific report, a query string is passed from the SmarterStats application to the SmarterTools Online Help. This query string relates to the particular page or report the user is seeking help with. This report shows which query string was passed to generate the page. Note: This report differs from the Query Items report in that it does not separate query string items. For example, assuming you have a hit that looks like `/help/default.aspx?section=Administrator&page=Getting+Started`. The Query Items report will show two lines: One for `section=Administrator` and one for `page=Getting+Started`. Conversely, the Query Strings report will show one line that looks like `section=Administrator&page=Getting+Started`.
- **Query Items** - This query allows you to view the various query string items that are passed to a particular page of your website. A typical example is the SmarterStats help system. Whenever anyone clicks on the "Help" graphic or a "What is this?" link within a specific report, a query

string is passed from the SmarterStats application to the SmarterTools Online Help. This query string relates to the particular page or report the user is seeking help with. This report shows which individual items were passed to generate the page. Note: This report differs from the Query Strings report in that it separates each query string item and reports them individually.

For example, assuming you have a hit that looks like

/help/default.aspx?section=Administrator&page=Getting+Started. The Query Items report will show two lines: One for section=Administrator and one for page=Getting+Started. Conversely, the Query Strings report will show one line that looks like

section=Administrator&page=Getting+Started.

- Referrers - This query is useful for marketing or to detect image leaching. For example, if you have an image that you have exposed on other websites that resides on your Web server, the URL it was viewed on is recorded every time a browser views your image. This report will list the top URLs or "refferals" in which your image was viewed. If you have a nice graphic, chances are that someone else will want to use it on their website. If they link your image path to their website, this report will list the top URLs that the image or graphic is viewed from.
- Referring Sites - This query reports the original source of visitors that came into your site that eventually hit the page or file you choose. This can be most useful for marketing purposes. For example, if you have a "Thank You" page after a person orders your product, you can identify the original sources of visitors that reached that page, effectively discovering where your orders came from.
- Top Files from IP - This query allows you to track the files most commonly requested by a particular IP address. This report is useful in understanding the behavior of specific visitors on your website.
- Top IPs - This query allows you to track what visitors (ip addresses) most often requested a file on your website. When used in conjunction with other data mining queries, this report is helpful in understanding the behavior of visitors that request certain files.
- Top Paths from IP - This query allows you to track the most common paths taken by an IP address during its visits to your website. This report is useful in understanding the behavior of specific visitors on your website.
- Top Paths through Page - This query allow you to track the most common paths taken for visitors that request a specfic file. This report is useful in understanding how visitors are accessing various files on your website.
- Top World Cities - This query allows you to identify the geographic regions that accessed a specific file on your website.
- Visits Before Hit - This query allows you to select a single page contained within your website and see the number of times a person visited the site prior to reaching and viewing the page selected. The report itself shows the IP address of the visitor, the initial entry page for that

visitor before they viewed the page selected, and the number of visits before the page selected was viewed.

For a definition of the terms listed on this page, please refer to the Glossary .