Sentient™ Form Query

Simple and fast simultaneous query across multiple private and public databases

The Sentient Form Query by IO Informatics, Inc. provides a small (under 100MB) software application indispensable to any user with access to a computer and a network connection. The product runs on a PC or laptop and may also be set to run in a client-server environment. By providing an extremely fast, unified, and simplified, access to each database required for well-informed research or business practice, Sentient Query dramatically improves quality and timeliness of service while saving several hours a week for every user.

The Sentient Form Query provides an easy-to-use use query interface capable of querying across multiple data sources simultaneously

For business and research activities, a broad set of important data resources exist that every user needs to utilize to make informed mission-critical decisions. Currently, users must go to each data source separately to search for the needed information. Mastering idiosyncratic query methods on each database, querying

each data source one at a time, and printing relevant reports is so time-consuming and laborious that many users go into the field "blind" – unsure about all important facts relevant to the action or decision under consideration.

Sentient Form Query is an easy to use product that allows for a fast and effective query, in which a single click sends out a request for information across the many, previously disconnected databases relevant to the day-to-day needs of a user. Reports from each data source are usually returned in seconds (in some cases involving slower databases, this may take a couple of minutes).

Sentient Form Query provides "Plain English" querying:

- Of a pre-selected set of most important databases in a defined area
- allowing ad hoc queries about terms and / or sets of data property characteristics or attributes from an available form interface
- from a single "Sentient Query" software application, by entering a single set of "Plain English" information into a simple query form, and selecting a single "Search" command
- This results in a Sentient Report
    o Viewing and use-restrictions are set according to querying user or according to levels set for dissemination of the report
    o The Sentient Report may also be exported to ANSI/Unicode compatible XML format.
- For the basic version, sending out a Query results in:
    o the original, familiar data source format
    o a separate, save-able or printable window for each positive response.

Each data source match on any of a comprehensive set of defined query blanks or "fields" calls up the correct report from the distributed data source.

Using the Sentient Query is easy. On a laptop or PC the user clicks on a desktop icon to open the small "Form-based Query" window. The user then enters a few critical bits of information into pre-defined blank forms and clicks, "Search". Reports from each database with any match will be returned in seconds or occasionally minutes. For partnerships, Sentient Query can be seamlessly integrated into third-party applications.

The Query can be applied to virtually any field in which as database is used. In a "Basic Medical" example, the user will:

- type "John Smith" into the "Patient Name" blank, then select "AND" and
- type "Celebrex" into the "Medications" blank, then
- select "ALL Databases" or "User Preference," "Billing", and finally will
- select "Search"

The user may also select sensitivity, and range values. For advanced users a function to attach a report or report subset to open data may be included. Controls on viewing, use and dissemination of reports may also be set, such as controls on users allowed to view, printing, and numbers of views or ability to resend reports. The advanced product user will also be able to automate setting and carrying out of queries and reports. This will allow the user to construct iterative queries resulting in automated alerting depending on correspondence of fields to pre-set flags.

User actions are simple and normally take under a minute.

This Sentient Universal Form Query takes advantage of technology developed initially in the 2DE Query, which enables querying of complex molecular biology databases distributed around the world. This method allows the user to complete previously laborious query tasks that could take hours and tens or hundreds of computer key-strokes and clicks in seconds.

Future versions of the Advanced Form-Based Query product will contain modules allowing queries of IMOs, queries of flat files, and queries of previously unstructured data, such as unstructured text, PDF files and image data.

At under 10MB per computer, the application installs in minutes, either by downloading from a network or from an installation CD. Initially some customization will be provided as an IO Informatics service for each unique office / database environment. Later this year, Sentient Query will be simple enough for a user to configure. When the installation is completed for one user, all other users in a given user environment (e.g. using the same broad database set) will be able to install the application with no configuration required.

Minimum System Requirements
- 10 MB hard disk space (75 MB with demonstration information / tutorial)
- Pentium II 400 MHz w/ 128 MB minimum RAM
- 1024x768 resolution, 24 bit color-capable graphics card
- network card or modem for remote database access
- Windows 32-bit (Win 95, 98, 2000, NT, XP) operating system
- (*Also available in Apple Operating Systems with additional application and configuration*)

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