

## **Empower All Your Users**

*IQ Server*™ is an IBM i-based (AS/400), advanced-function query, reporting, and BI solution that serves as the foundation of the *NGS-IQ*™ product line.

## **A Company-Wide Hub for Reporting and Business Intelligence**

*IQ Server* works directly with your DB2 data on the IBM i and can also reach out to MySQL, SQL Server, Oracle, PostgreSQL, and DB2 on other platforms, so you can use it as the hub for all your query, reporting and BI needs.

## **One Step Reporting and Analysis**

*IQ Server* offers hundreds of features, but for many customers, the single, most valuable advantage of *IQ Server* over IBM Query/400 and nearly all competing BI software is *IQ Server's* ability to produce professional reports, Web pages, spreadsheets, presentations, and analytical models in one step, using only one query to obtain the results users need.

One-pass report writing means increased productivity and better system performance because your users get accurate information quickly without wasting system resources running multiple queries.

## **Query/400 Migration Assistance**

Many customers discover *NGS-IQ* after using IBM Query/400. To ease migration, NGS offers *IQ Server* users a Query/400 API they can use to run and enhance Query/400 queries in *IQ Server* without rewriting or converting them. This Query/400 API enables you to leverage

your company's past development efforts and the database knowledge embedded in your existing queries.

## **Advanced Features**

*"WebRunner" Interface:* *IQ Server* lets authorized users run queries over the Web from their PC, tablet, or smartphone without requiring you to write HTML, Java, or PHP code and without licensing a software developer kit. These queries can include hyperlinks that support live drill down from charts and summary values. You can also use *IQ Server's* "Web browser keywords" to integrate secure, real-time, Web reporting into Web pages, portals, and applications. Web users can output query results to Excel, PDF, and HTML on demand.

*Conditional Calculations:* *IQ Server* lets you create "conditional" new fields based on the value of the data retrieved. You can place up to 32 conditional statements on a single new field! You can also do the following:

- Replace codes with meaningful descriptions
- Create flags to draw attention to critical values in your report
- Calculate percentages, exponents, square roots, and remainders
- Convert fields from numeric to alpha, alpha to numeric, and lower-case to upper-case
- Define summary functions such as sum, minimum, maximum, average, and standard deviation
- Substring and concatenate fields

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*Online Formatting:* IQ Server delivers unlimited formatting capability and lets you see how your report will look at every step. You can do the following:

- Add text to detail and summary lines
- Change line spacing
- Move column headings
- Rearrange report fields from a single panel
- Make page numbers restart at any or all report break levels
- Format your output for use with preprinted forms or multi-up labels

*Run-Time Prompting:* IQ Server lets you build queries that prompt for record selection/exclusion criteria and new field calculation formulas at run time. You can even write help text instructions for these prompts, so your users can answer them correctly. If you like, you can go beyond the standard IQ Server prompt by using the sample CL programs that come with IQ Server to create your own custom prompt panels. Run-time prompts defined in IQ Server automatically appear with your help text instructions whether your users run their queries from IQ Server's 5250 or Web interface, Qport® Builder, or Qport® Access.

*Record Selection and Exclusion:* IQ Server provides comprehensive record selection and exclusion logic including the not-in-the-range function to assist in exception reporting. You can use AND/OR logic to define relationships between multiple selection criteria or use parentheses to define your selections in one statement. You can even perform calculations within a record selection statement to base a selection on the result of a derived value.

*Analytical Summary "Matrix" Reporting:* IQ Server allows you to create up to ten tables within a query, delivering quick, detailed analysis of patterns, trends, and exceptions! Within an IQ Server table, you can instruct the product to calculate sums and cumulative sums, averages, rankings by sum and average, and special record counts. IQ Server will sort the table results from high to low, from low to high, by sum, or by average.

*Adobe® Acrobat File Generation:* IQ Server lets you create formatted reports as Adobe Acrobat PDF files with bookmarks assigned to pages or the break fields in your output.

*Web Report Publishing:* IQ Server lets you generate your reports as HTML files for viewing with a Web browser. You can assign hypertext links inside your report to support drill downs and reference cascading style sheets, banners, backgrounds, and images to create professional, presentation-quality Web reports. You can generate static HTML reports that present historical information and reports that present live, real-time data.

*XML File Generation:* IQ Server can transform your output into XML which can be distributed with or without HTML tables and style sheets. This function is very useful as more and more companies require XML for data exchanges.

*Simplified File Joins:* IQ Server takes the guesswork out of joining DB2 files when building queries by remembering how your expert users join files. As other users build new queries over those same files, IQ Server suggests they join the files the same way. IQ Server also lets you pre-define join relationships spanning up to 32 DB2 files, so your end users can get to the data they need

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and design efficient queries over multiple files without having to understand the underlying join logic or actual DB2 file names.

*Database Field Aliases:* *IQ Server's* alias feature lets you optionally create longer, meaningful names for database fields that otherwise might be incomprehensible to your end users. But unlike many tools that require you to build a catalog or meta data repository, the *IQ Server* alias feature is completely optional and can be employed on an as needed basis. One user may continue to display the DB2 field names while another displays the alias names.

*Previous Record/Skip Record:* *IQ Server's* previous record and skip record functions allow you to eliminate the problems associated with "one-to-many" relationships between joined files. By using these functions, you can have a field's current value compared to its value in the previous record and automatically skip one record, a range of records, or all remaining records in the series where the field's value is the same. You may also use this feature to produce "top n" reports, showing your biggest orders, fastest selling items, and more.

*Program Exits:* *IQ Server* allows you to call and execute your own programs immediately before, during, and after query execution. You can use these exit points to perform unique data manipulation routines, retrieve data stored on other systems, encrypt fields, and more. The data provided by your program is integrated into the resulting *IQ Server* output.

*Report and Data Distribution:* *IQ Server* allows you to assign distribution lists to your reports, so they reach multiple desks automatically

after execution. You also can take advantage of *IQ Server's* email and FTP functions.

Your email TO, CC, BCC, Subject, and Message content can include references to database fields whose current value is then substituted into the desired position at run time. You may also create queries that generate "alert messages" when specific conditions occur in your database. When you run this type of query, *IQ Server* won't send the alert message and/or report if your test condition doesn't exist.

*File Unions:* You can create a union of files or file members to consolidate your data for reporting purposes.

*New Fields/Sorts:* *IQ Server* provides expanded support for new fields, allowing you to define up to 99 new fields in a single query. Sorting capabilities allow up to 32 sort fields in a single query. You can define up to 32 group by fields in a single query.

*SQL Command Interface:* In addition to its menu-driven user interface, *IQ Server* provides a Structured Query Language (SQL) command entry panel for quick inquiries.

*Report Management:* *IQ Server* allows you to link up to 99 queries so they can be processed sequentially in one job stream.

*DB2 for i File Member and IDDU Support:* *IQ Server* can work with legacy multi-member DB2 files and flat files.

### ***Database Reporting Without Limits***

*IQ Server* can raise your productivity and dramatically cut your reporting backlog while satisfying a wide range of users.