Develop, deploy, and share critical analytics and reporting information for data warehousing and Business Intelligence

IBM Information Management software

IBM DataQuant for z/OS and Multiplatforms: Version 1.2

Highlights

- **Derive maximum value from a wide variety of data sources**
- **No programming required**
- **Enterprise Business Intelligence reporting and analysis**
- **Executive Dashboards**
- **information portals**
- **Powerful analytical operands and functions**
- **OLAP analysis**
- **BIRT specifications support**
- **One-click to populate Excel sheets**
- **Security, access, and control**
- **Eclipse-based**

Data warehousing has undergone a dramatic transformation. The trend has been moving away from the static, point in time warehouse or data mart to one of a fluid, every changing model. This is known as Dynamic Warehousing. DataQuant also supports the emerging Operational Business Intelligence strategy by providing its functions in an enterprise deployment environment.
This new paradigm involves hundreds of users in an enterprise that need to synthesize and access data to solve a myriad of business intelligence questions. Built on Eclipse™, an award-winning, open-source platform, IBM DataQuant for z/OS® and Multiplatforms can address your business intelligence needs by deriving even more value from your data warehouse or data mart through its ability to easily create and disseminate analytics and reporting data via dashboards and visual solutions.

DataQuant provides an SOA layer allowing dashboards and reports to be directly embedded within third-party Web pages. DataQuant can also embed external content directly in a visual report or dashboard, thus providing a BI portal. Or, DataQuant objects can be imbedded into other portal technologies such as IBM WebSphere Portal. Support of active portlets within WebSphere portal extends the scope of DataQuant to embrace IBM's composite application topology.

While many analytical tools require extensive programming and lengthy deployment times, IBM DataQuant for z/OS and Multiplatforms provides an easy to use, out of the box environment enabling you to quickly and easily develop Business Intelligence solutions. This includes a wealth of easy-to-use charts, controls and graphics that you can drag and drop to quickly create dashboards and reports. Other features include:

- *Over 100 built-in mathematical and analytical functions.*
- *The ability to create compound, multi-page reports that concurrently draw data from multiple data sources across your enterprise*
- *Multi-platform support including IBM System z™, zLinux, Linux®, I*

series, Microsoft® Windows®, IBM AIX® and Solaris.

- *Support for interactive dashboards that permit users to dynamically access relevant enterprise data, on demand, using intuitive drilldown and information zooming facilities*
- *Drag-and-drop development of OLAP analytics, SQL queries, embedded sub-queries, tabular reports, graphical reports, and pivot tables*
- *OLAP query editor with support for MDX OLAP based engines, connecting via XMLA*
- *Full compatibility with an existing QMF infrastructure and objects*
- *Support for IBM DB2® and Informix®, as well as most other popular database management systems*
- *Support for a wide variety of report formats, including XML, HTML, Microsoft Excel® and PDF*
- *Includes full support for the Eclipse Foundation's Business Intelligence and Reporting Tools (BIRT) report format, complementing DataQuant's native tabular and graphical reporting formats*
- *Provides a rich set of Java APIs, web service APIs and a command library interface, allowing DataQuant content to be directly embedded within a custom-developed or third party application infrastructure*
- *One click function to populate Excel with DataQuant output with all formatting retained*

Thin Client and Rich Client Deployment Options

IBM DataQuant includes both an Eclipse-based rich client desktop application and an IBM WebSphere®-based, thin-client Web application. The Eclipse-based offering provides a powerful, intuitive and highly productive rich-desktop environment within which queries, reports and visual dashboards can be quickly authored, tested and deployed.

The high-performance runtime environment (thin client) based on WebSphere software extends key functionality to browser-based users across multiple platforms, providing access to all IBM DataQuant BI content, as well as the ability to create queries and reports, and perform ad-hoc, visual drag-and-drop data analysis.

Share BI content internally and externally

IBM DataQuant for WebSphere includes a robust Service Oriented Architecture (SOA), providing a flexible infrastructure that enables you to easily share business intelligence solution components (queries, reports, dashboards, etc.) with partners or clients over secure Web connections.

Using the SOA capabilities and rich security infrastructure of IBM DataQuant, organizations can distribute BI assets to both internal or external users via a standard, secure Internet connection. Available to both Web and rich desktop application users, these SOA capabilities provide user and group-specific access to BI assets without requiring knowledge or direct access to the underlying databases and data repositories that power them. This allows you to readily share your BI solutions with users both inside and outside of the firewall, all with zero client-side administration. It provides a build once, service many infrastructure as required by SOA deployments.

Security and Personalization

Integrated business intelligence systems require a high level of security to protect mission-critical information. Regulatory requirements for information continue to grow thus one must be able to secure business information at the appropriate level. IBM DataQuant provides granular access control, tailoring the look and feel of available reports and visualizations and data on a per user/group basis. For example, technical users may see a traditional database-centric view, whereas business users see a role-specific view of relevant reports and dashboards. You may opt to tailor off-line schemas to each user/group so that individuals see only those tables and columns relevant to their job function or business area.

IBM DataQuant also supports single sign-on, allowing users to log on to all enterprise assets using a single account. IBM DataQuant logon information can be automatically passed to all databases or derived from specific accounts designated as appropriate for the particular user.

IBM DataQuant security features include:

- Optional 'internally defined' IBM DataQuant user directory
- The ability to directly interface with LDAP directories
- An internal object repository that controls and audits the access and distribution of data sources, queries, reports and dashboards

Make the most of your System z solutions

When used in conjunction with DB2z, IBM DataQuant leverages data warehousing improvements, such as materialized query tables, star join query enhancements and query parallelism. It also helps improves performance during the execution of complex queries, or those that primarily return historical static data, by providing a data cache that shares the same query results across multiple DataQuant users.

For more information

Please contact your IBM marketing representative, an IBM Business Partner or call 1-800 IBM CALL within the US. Also visit our Web site at:

ibm.com/software/data/db2imstools

When ordering IBM DataQuant, please refer to the following program numbers:
IBM DataQuant for Mulitplatforms (5724-R90)
IBM DataQuant for z/OS (5697-N64)

Software Requirements

IBM DataQuant requires the following software:
• Database connectivity requires an appropriate JDBC driver for each type of RDBMS accessed.
DataQuant V1.2 supports the following OLAP data sources:

- DB2 Cube Views, V8.1, or later, on the DB2 server that is accessed
- DB2 Warehouse Version 9 and above (all editions)
- Other MDX-based OLAP servers with support for XMLA connectivity

The workstation component of IBM DataQuant requires one or more of the following operating environments:
• Microsoft Windows 2000
• Microsoft Windows XP
• Microsoft Windows Server 2003
• Microsoft Windows Vista
• Red Hat Enterprise Linux WS 3, or later
• SuSE Linux 8.2, or later
• Sun Solaris 9 SPARC, or later

The WebSphere component of IBM DataQuant requires the following:
• WebSphere Application Server V6.0.2, or later, on any operating environment supported by WebSphere Application Server
• One of the following Web browsers (with JavaScript support enabled) on each user machine:
• Microsoft Internet Explorer V6, or later
• Netscape Navigator V6.2, or later
• Firefox V1.5, or later
• Most other popular Web browsers with JavaScript support enabled

IBM DataQuant for Multiplatforms supports the following data servers:
• DB2 for iSeries™, V5.2, 5.3, or 5.4
• DB2 for Linux, UNIX®, and Windows, V8.1, 8.2, 9.1, and 9.5
• Informix Dynamic Server V9.x ,10, 11
• SQL Server 2000 and SQL Server 2005
• DataQuant provides JDBC-level support for other popular JDBC-compliant data sources

In addition to the database servers supported by IBM Dataquant on Multiplatforms, IBM DataQuant for zOS supports the following database servers
• DB2 for z/OS, 7.1, V8.1 and V9.1
• DB2 Server for VSE & VM, V7.3 and V7.4

IBM DataQuant for z/OS requires the following software:
• One of z/OS V1.6 (5694-A01), or later, or z/OS.e V1.6 (5655-G52), or later, if DB2 V7.1 or DB2 V8.1 is used
• One of z/OS V1.7 (5694-A01), or later, or z/OS.e V1.7 (5655-G52), or later, if DB2 9 is used
• For full compatibility with QMF for zOS infrastructure and objects, DataQuant for WebSphere and Workstation components require the following:
A DB2 QMF Enterprise Edition V8.1 (5625-DB2) or V9.1 (5635-DB2) license

Note: this is a significant change from the Version 1.1 release as a license of QMF EE was a pre-requisite. If the

customer does not have QMF installed or does not wish to maintain a cooperative DataQuant and QMF infrastructure, then QMF EE is not required.

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