

IBM Software Group

IBM DataQuant for z/OS and Multiplatforms

http://www-306.ibm.com/software/data/db2imstools/db2tools/dataquant/

Product Overview

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IBM DataQuant – factors in its development

- Created to modernize the customer's QMF environment and extend their investment in QMF
- Separate from DB2 and available as a one-time charge product
- Comprehensive package taking the best of QMF and its workstation components
- Operate as a standalone BI tool but the ideal environment is in conjunction with QMF
- Was developed in Java on the Eclipse platform starting from scratch



Summary of capabilities

- Integrated infrastructure supporting a full spectrum of BI capabilities
 - Table data editing
 - Ad-hoc query
 - Graphical reporting
 - Interactive visual dashboards
 - ... and more
- Deployment models:
 - Workstation (rich client)
 - Browser-based (thin client) users
- Zero coding, drag-drop authoring model
 - Content authors quickly develop interactive dashboards and graphical page-based reports
 - Lines of business can refine or design their own reports and dashboards
- Powerful data analysis
 - Support for both OLAP and relational data sources
 - Includes over 100 built-in analytical functions



Product Editions

- IBM DataQuant for z/OS 5697-N64
 - OTC offering, IPLA Licensing
 - Try & Buy available
- IBM DataQuant for Multiplatforms 5724-R90
 - OTC offering, Passport Advantage Licensing
 - Try & Buy available
- Select the edition appropriate to the platform of the database servers that will be accessed – not where DataQuant itself will be installed



Product Components

- DataQuant for Workstation
 - Java-based, rich client application based upon the Eclipse platform
 - Provides a graphical environment for the development of query, report, dashboard and database visualization solutions
 - ▶ Supports multiple workstation environments: Windows, Linux and Solaris
- DataQuant for WebSphere
 - Provides a comprehensive runtime environment, capable of displaying all DataQuant content, under an HTML, 'thin client' model
 - Runs under IBM WebSphere Application Server (WAS) on all platforms supported by WAS, including Windows, Linux, Solaris, HP-UX, iSeries, zLinux and z/OS



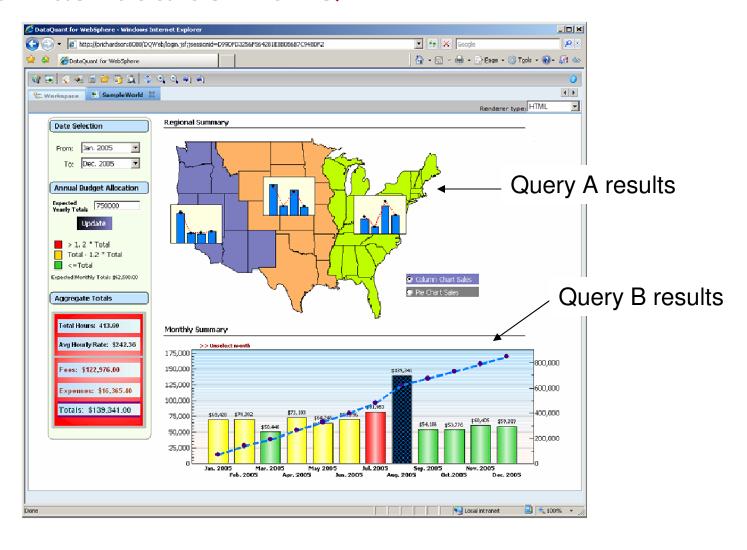
Visual Dashboards – BI for the enterprise

- Present data concurrently drawn data from multiple heterogeneous data sources
- Support for dynamic queries and optional data 'write-back'
- Rapid dashboard authoring environment
- Deploy dashboard solutions to both workstation and web browser users
- Embed dashboard content in 3rd party web pages, portals and web applications
- Support for OLAP and relational data





Visual Dashboards with QMF





Page-based Reporting

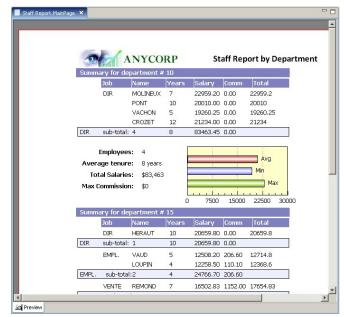
- Generate HTML or PDF graphical reports, drawing data from one or more data sources
- Support for optional cover sheets, summary pages and report annexes

Generate reports at designated intervals and make available to

end users via the workstation, web or email

 Directly embed reports within portals, custom web sites or web applications

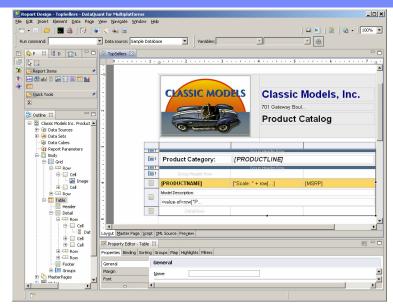
- Three reporting technologies:
 - 1. Simplified tabular report designer
 - Graphical report designer
 - BIRT-based report designer





BIRT Reports

- Supports the increasingly popular BIRT reporting format
- Design format complements
 DataQuant's 'native' graphical and tabular report designers

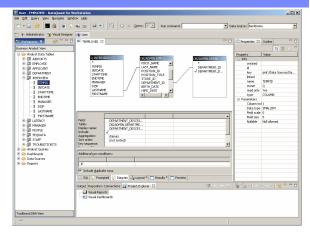


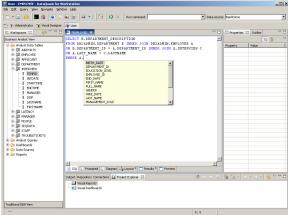
- Import BIRT reports developed outside of DataQuant, as well as the ability to export DataQuant-developed reports for use in external BIRT-enabled applications
- BIRT reports are fully integrated into the DataQuant application:
 - Work with DataQuant queries and data sources
 - Subject to DataQuant's object tracking, security and resource governing
 - Stored in the DataQuant repository and accessible by both web and workstation users

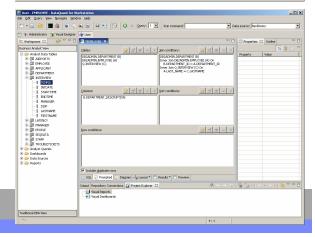


Query Development Facilities

- Graphical development via 'query diagram' designer
- Step-by-step development via 'prompted query builder'
- SQL development via colorized editor with code assist, code completion and dynamic parameter hints
- Support for both relational queries (SQL) and OLAP queries using multi-dimensional expressions (MDX) query language
- Available in both the workstation and web-based environments







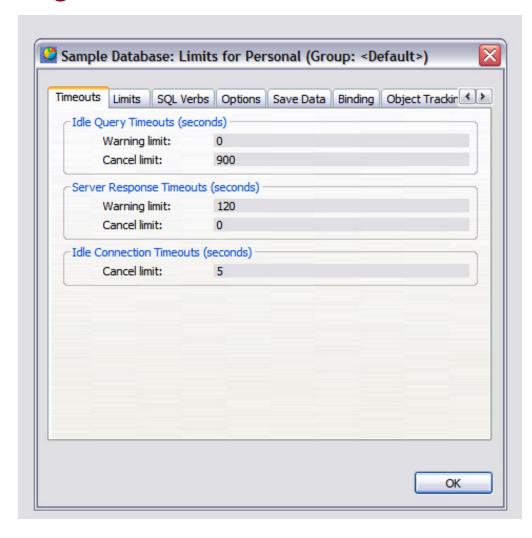


Application Security & Personalization

- Application-level security with support for single sign-on
 - Optionally interfaces with existing LDAP directories
 - Built-in 'internal security' model available for customers that do not operate LDAP-based directories
 - Optionally logs onto data sources using accounts mapped from LDAP/internal security directory
 - Ability to place permissions on all object types, from dashboard content to individual table columns
- Personalization
 - ▶ Tailors 'look and feel', including available reports, visualizations and data on a per user/group basis
 - Ability to store user and group-specific offline views of database objects
 - Ability to create an unlimited number of workspaces, each containing differing collections of data sources, reports and visual dashboards



Systems Management and Administration

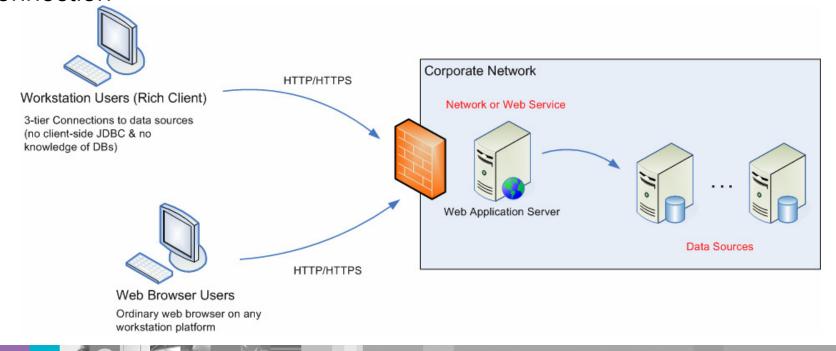






SOA and Web Services

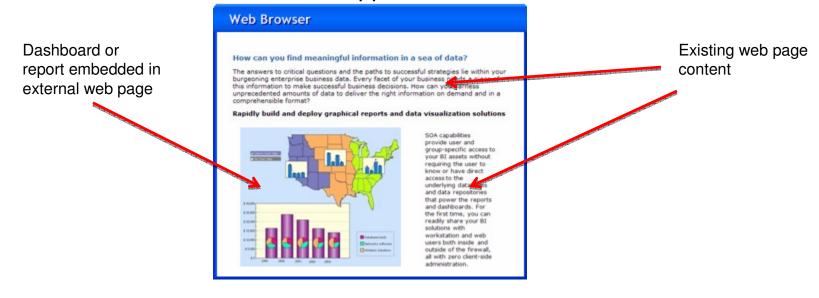
- Permits organizations to share designated BI assets with business partners and/or customers
- Allows both web and workstation users to open, execute and retrieve data, reports and visualizations over a HTTP or HTTPS connection





Embedded Capabilities and APIs

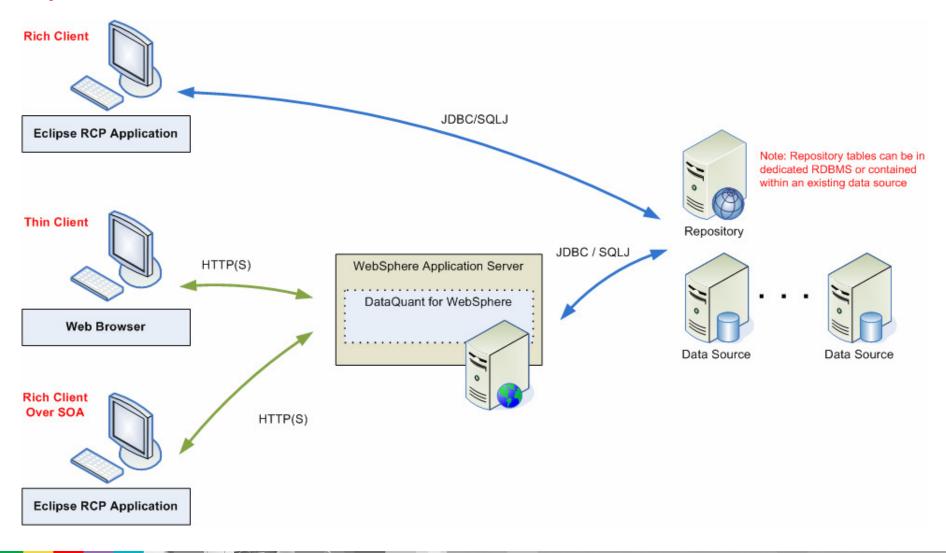
 Dashboards and reports can be optionally embedded directly within portals, web sites or custom web applications



- Additional customization via three API layers
 - Java APIs for tight integration with Java-based apps or web apps
 - Web Service APIs for integration over HTTP(S) connections
 - Command library APIs for external batch operations and scheduling



Operational Architecture





Backward Compatible with QMF Infrastructure

- Queries, forms and procedures remain object-compatible with prior QMF versions
- Retains full support for QMF Catalogs
 - Ability to create, run, edit and share QMF objects with QMF for TSO¹ and prior QMF distributed products
 - Optionally use resource limits defined in QMF catalogs
- Database explorer provides familiar look and feel for prior QMF users
- Built-in ability to import QMF Server Definitions Files (SDF) and QMF Visionary solutions
- Built-in ability to migrate visual reports into the new graphical format

¹Support limited to function availability on distributed platforms – not all z/OS or REXX functions are available



DataQuant and Cognos 8 BI positioning

DataQuant

- a BI 'tool' that has ease of use out of the box but all extensions must be created
- best suited to extending the QMF install base
- can interoperate with Cognos 8 to enhance System z Cognos accounts with their QMF investment

Cognos 8 BI

- our stated BI strategic product suite
- a BI 'platform' with integrated, extensible features and Performance Management capabilities
- has many years of known industry credibility and a large organization to back it up and assist
- extraordinary functional capabilities



IBM DataQuant Examples

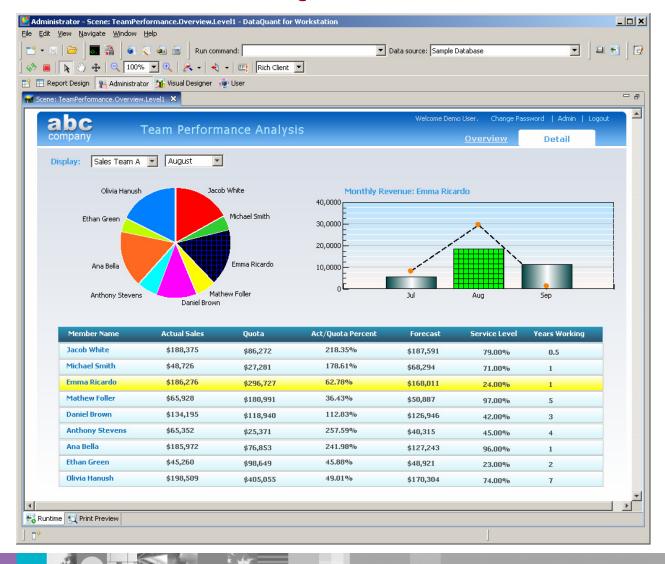


Visual Dashboards – DataQuant for Workstation



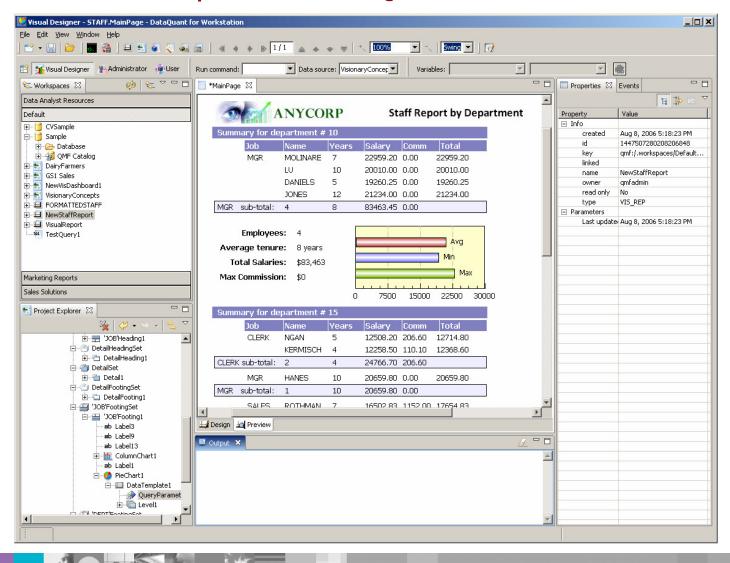


Visual Dashboards – DataQuant for Workstation



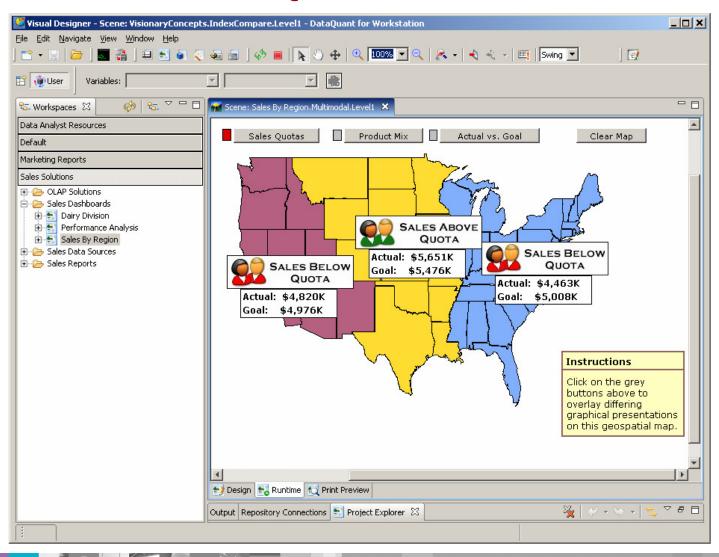


Enhanced Visual Reports – DataQuant for Workstation





Visual Dashboards – DataQuant for Workstation



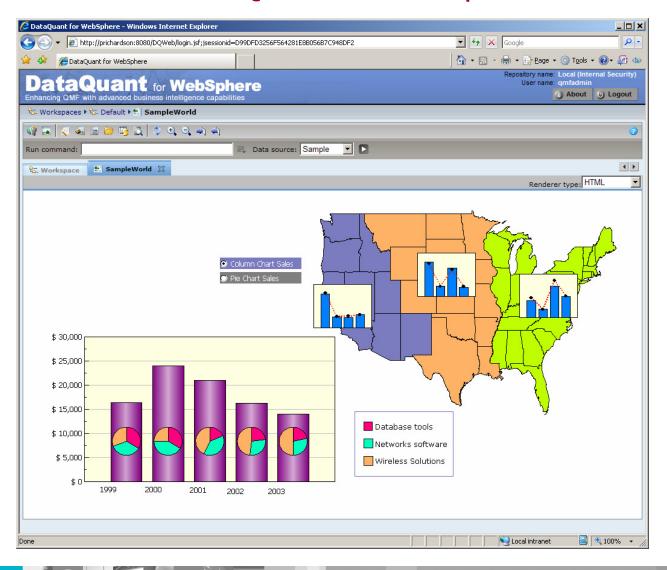


Visual dashboards - DataQuant for WebSphere



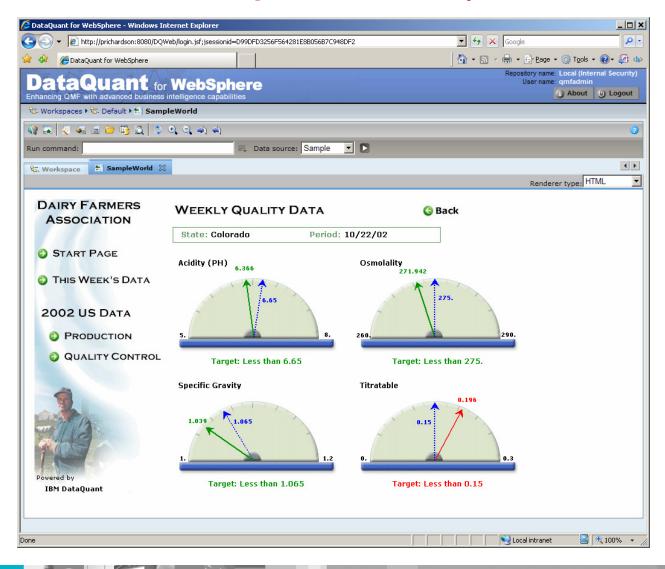


Visual Dashboards - DataQuant for WebSphere



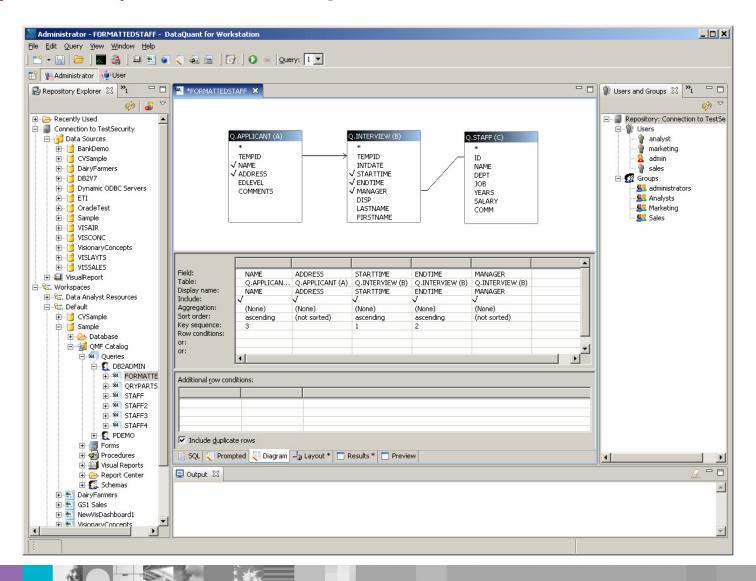


Visual Dashboards - DataQuant for WebSphere



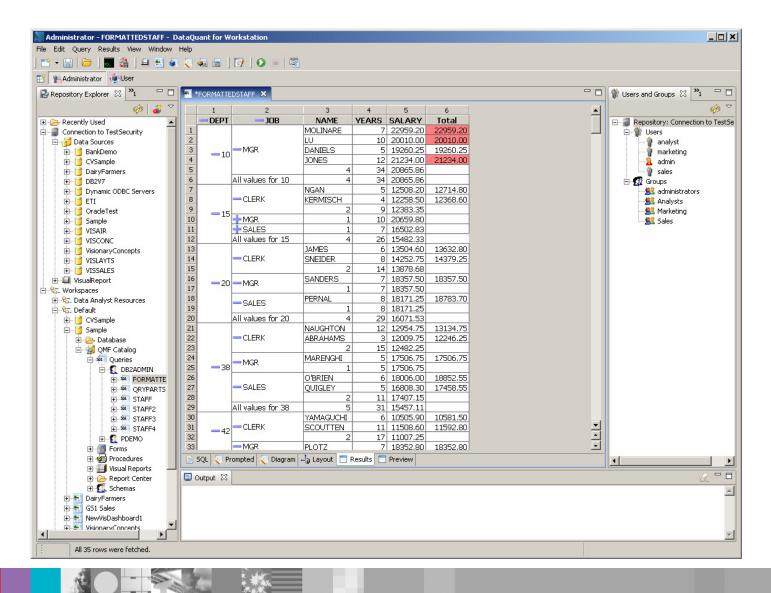


Query Development - DataQuant for Workstation



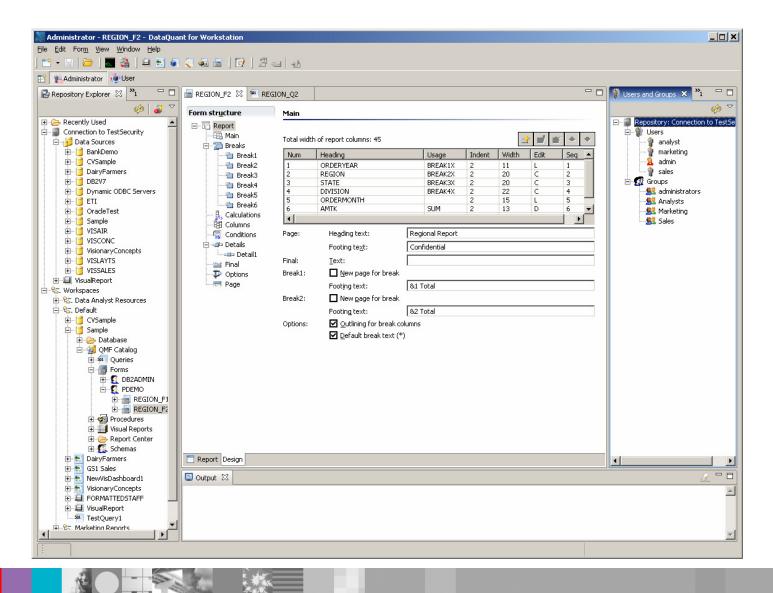


Grouping & Aggregation - DataQuant for Workstation



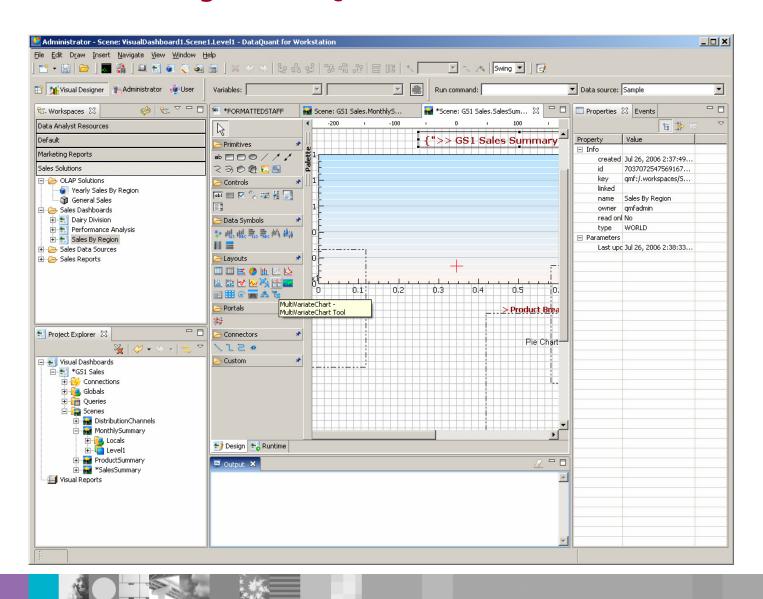


Report Development – DataQuant for Workstation





Dashboard Authoring – DataQuant for Workstation





Summary

- DataQuant was primarily created to modernize the customer's QMF environment and extend their investment in QMF
- A one-time charge, server-based, thin and rich client deployment option all shipped as an integrated package
- It is not intended to conflict with Cognos 8 or vice versa
- A comprehensive package taking the best of QMF and its workstation components
- Operate as a standalone BI tool but the ideal environment is in conjunction with QMF