IBM Query Management Facility (QMF)

Analytics, visualizations, data preparation and self-service business intelligence for a wide variety of data sources

Highlights

Surface actionable business insights

Expand analytics to everyone

Consolidate and reduce costs

Many organizations find it difficult to deliver the secure, accurate, real-time analytical insight they need to support rapid business decisions. Organizations are challenged with more data, sources, user types and use cases. This has led to multiple tools being used by various departments creating independent silos of insight instead of collaboration.

IBM® Query Management Facility (QMF) supports self-service business intelligence (BI) with interactive dashboards and intuitive visualizations. It is a security-rich, easy-to-use business analytics and visualization tool optimized for IBM Z® data sources providing virtualized, in-memory federation on IBM Z. It supports direct access to relational data sources such as IBM Db2® for z/OS® and virtualized access to traditional, non-relational data sources such as Information Management Systems (IMS), Adaptable Database System (ADABAS), Virtual Storage Access Method (VSAM), System Management Facilities (SMF) data, and other disparate IBM and non-IBM mainframe and non-mainframe data sources including non-relational, flat files and web services data. It ensures secure, role-based access to various resources using IBM Resource Access Control Facility (RACF®) as the foundation and allows enterprise-wide use through web, workstation, and interactive system productivity facility (ISPF) interfaces.

QMF offers enterprise licensing for unlimited users and data sources. Consolidate and reduce costs by eliminating the need for multiple BI tools to support different data sources, with no per user/data costs.

Access enterprise data including your most valued mainframe data in real-time

Security-rich, easy-to-use business analytics and visualization tool

Surface actionable business insight

Organizations can generate enterprise-wide views by combining multiple IBM Z data sources with other structured and non-structured data sources. QMF can publish result sets to reports, charts, dashboards, forecasts, pdfs, CSV, database tables or REST and JDBC APIs. It supports visualization through charts and drill through graphical analysis to granular data with point and click simplicity and end user interactivity. No OLAP cubes are necessary meaning less maintenance overhead and quicker access to the latest data.

QMF also delivers enhanced reporting and visualizations beyond just combining and displaying data from multiple data sources by taking advantage of Java script for analytical application development and complex logic embedded procedures. QMF-based analytics and visualizations can be enhanced with JavaScript and deployed through QMF for Workstation, QMF for IBM® WebSphere®, and the QMF Z Client. Deploying through a REST API, JavaScript can be used for rapid development of web-based front ends allowing for data manipulations and insight generation not otherwise practical or possible in SQL.

Expand analytics to everyone

Organizations benefit from an intuitive user interface that helps business users automatically define visualizations across data sources and instantly share those insights with their peers. With hybrid cloud and new file format support, users can deploy QMF on IBM Cloud and Azure with support for new data sources and databases including Athena, Redshift, Snowflake, Apache Spark, IBM Cloudant and MongoDB. New file format support for Apache Avro and Apache Parquet provides substantial performance improvements for the importing and exporting of data. Simplified workstation configuration rollout and QMF for Websphere deployment on IBM z/OS Container Extensions (IBM zCX) facilitate an easier up and running experience and maintenance of QMF.

Consolidate and reduce costs

With QMF organizations can deliver in-place analytics for multiple users and data sources, quickly and efficiently, while eliminating the need for multiple business intelligence tools for different data sources and per-user and source costs. They can analyze operational and transactional data on IBM Z, taking advantage of IBM zIPP engines and the IBM Db2 Analytics Accelerator for z/OS (Accelerator) when available, to reduce CPU costs.

QMF can take advantage of the Accelerator for resource intensive SQL. Resource limit options allow administrators to specify when to use the Accelerator when available. Users can see tables that exist on the Accelerator and add additional tables using drag/drop functionality. QMF supports Accelerator Only Tables (AOTs) so applications that temporarily save and manipulate data via the SAVE DATA functionality are Accelerator eligible using AOTs. It can write directly to and query AOTs. QMF workloads can include non-Db2 data and still benefit from acceleration.

Conclusion

IBM Query Management Facility

With QMF organization can access all their enterprise data including their most valued mainframe data in real-time. They can join data across data sources and platforms and analyze it with new queries and visuals providing a comprehensive view across their business. And QMF reports, visualizations, dashboards, and data definitions can be readily accessed by modern applications.

Why IBM

IBM is trusted to manage companies' most mission-critical data and applications. Our long history of innovation in enterprise data solutions includes market-leading database solutions and enterprise-ready AI. We enable our clients to run solutions in any cloud or on-premises environment and believe that our clients' data solely belongs to them.

Call to action

To learn more about QMF, contact your IBM representative or IBM Business Partner, or visit the IBM Db2 Tools for z/OS Community.

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