Informatica Data Engineering Quality

Benefits

- Compete with big data you can trust
- Accelerate and lower costs of your big data initiatives
- Enable business and
- IT collaboration in the governance of big data

Deliver Fit-For-Purpose Big Data, With Scalable, Role-Based Data Quality

Big data transforms the way businesses innovate and improve their operational processes. However, as organizations look to leverage big data in their environments, they struggle to deliver measurable outcomes from these projects. One of the key challenges—data quality issues— degrade the integrity and trust in big data deliverables.

Delivering high-quality, trusted data will deliver valuable business outcomes, but any question of data quality is a serious—if not insurmountable—obstacle to an organization's ability to make intelligent decisions, reduce costs, generate growth, and promote innovation. Relevant, timely, and trustworthy data is essential for success.

Informatica® Data Engineering Quality empowers your company to take a holistic approach to managing data quality and leveraging the power of big data. The solution transforms your data quality processes to be a collaborative effort between business users and IT. This creates a true data-driven environment that supports better business decision making and analytics regardless of your data's size, format, or platform. It delivers relevant, trusted data to all stakeholders, projects, and business applications—on-premises, in the cloud, or big data anywhere, including Hadoop, NoSQL, and beyond.

With Informatica Data Engineering Quality, you can:
- Enrich and standardize any data at scale
- Enable business and IT collaboration in the governance of all data—big and small
- Ensure relevant data is used to deliver trusted insights

Powerful Data Discovery and Profiling Tools

Informatica Data Engineering Quality includes a set of unified, role-based data discovery and profiling tools for quickly identifying critical data problems hidden across the enterprise. Powerful and versatile, these tools allow business and IT to collaborate and quickly identify data quality issues, easily design and apply business rules and policies, and proactively monitor the data quality process. Informatica Analyst is an easy-to-use, browser-based tool that empowers the business to easily participate in improving the quality of data, without the need for IT intervention. Informatica Developer is a powerful, data quality development environment that enhances IT productivity by simplifying the process of creating comprehensive data quality rules.

CLAIRE – The "Intelligence" in Intelligent Data Quality

The CLAIRE® engine delivers metadata-driven artificial intelligence to Data Engineering Quality, enabling intelligent recommendations of data quality rules based on how similar data has been managed. CLAIRE can also automatically detect data similarity, which is the first step toward detecting and removing duplicate data.

Rich Set of Data Quality Transformations and Universal Connectivity

Informatica Data Engineering Quality provides comprehensive and modular support for all data and all use cases, whether you're focused on a small project or a complex, cross-enterprise initiative. You can deliver trusted customer, product, financial, or asset data to any data integration, master data management (MDM), or data governance project. It features standardization, matching, worldwide address cleansing, and versatile data quality management for all project types. The software also enables you to deploy pre-built data quality rules so you can easily handle the scale of big data to improve quality across the enterprise.

Key Features

Informatica Analyst

This easy-to-use, browser-based tool empowers data stewards, business analysts, and line-of-business managers to take ownership of the data quality process so the business can have a shared source of governed and trusted data. Informatica Analyst enables data profiling and analysis with the flexibility to filter and drill down on specific records for better detection of problems.

Business users can readily monitor and share data quality metrics with scorecards and reports. Specification, validation, and testing of quality rules becomes streamlined and a collaborative effort between business and IT. Informatica Analyst enables the business to take a leadership role in improving the quality of data.

Informatica Developer

This powerful development environment enhances developer productivity for data quality. This tool enables architects and developers to quickly discover and access all data sources, regardless of where the source data is located, to improve the process of analyzing, profiling, validating, and cleansing data.

According to Experian's 2015 Data Quality Benchmark Report, organizations suspect 26% of their data to be inaccurate.

With Informatica Developer, architects and developers can combine data quality rules with sophisticated data transformation logic, and conduct midstream and comparative profiling to validate and debug logic as it's developed. This results in less time troubleshooting and more time deploying capabilities for your business partners. Data quality services can be configured so that big data can be provisioned physically or virtually, and at any latency. Informatica Developer enables IT developers to reuse all profiling and rule specifications from business analysts and data stewards across all applications and projects.
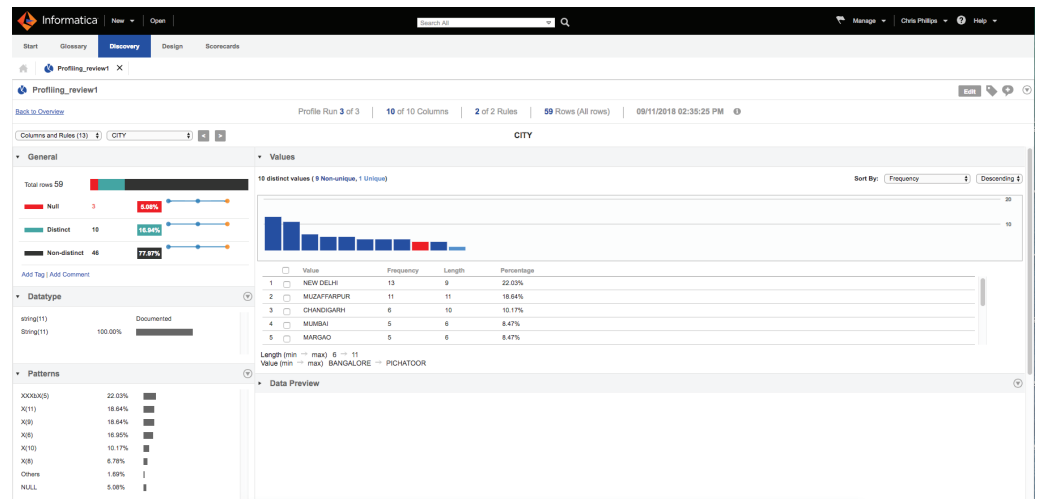

Figure 1: Informatica Data Engineering Quality provides an easy-to-use, browser-based interface that enables data stewards and business analysts to profile data, specify, and validate rules, and monitor quality over time.

Key Benefits

Cost-Effectively Monitor and Cleanse Data Across Big Data Environments
Informatica Data Engineering Quality helps all parts of your company—the business and IT alike—proactively monitor and cleanse data across Hadoop, NoSQL, and other big data environments. Data quality problems can be identified, resolved, and prevented to ensure that all data is authoritative and trustworthy.

Informatica Data Engineering Quality allows IT organizations to access all data quickly to accelerate the completion of data quality-centric projects. Your IT team can accelerate data quality projects by building data quality mappings within a familiar development environment that provides data profiling and pre-built data quality rules for matching and address cleansing. Data quality transformations can be validated quickly using midstream profiling.

The integrated solution provides a centralized set of reusable rules and tools for managing quality across any project, eliminating redundant data quality tools, and slashing license and maintenance and/or subscription costs.

Enable Business and IT Collaboration in the Governance of Data

With Informatica Data Engineering Quality, business and IT collaborate more efficiently to support data governance policies and processes.

- Data stewards and business analysts get their own relevant, role-based tools so they can easily manage data quality tasks without relying on their IT colleagues.
- Line-of-business managers can access and visualize data quality levels and react faster to any potential problems.
- IT organizations have access to a single, unified, and highly productive environment for profiling and cleansing data, and managing data quality within and across big data environments. This agile data architecture delivers reusable and compliant data services, allowing IT to be more responsive to the needs of the business.
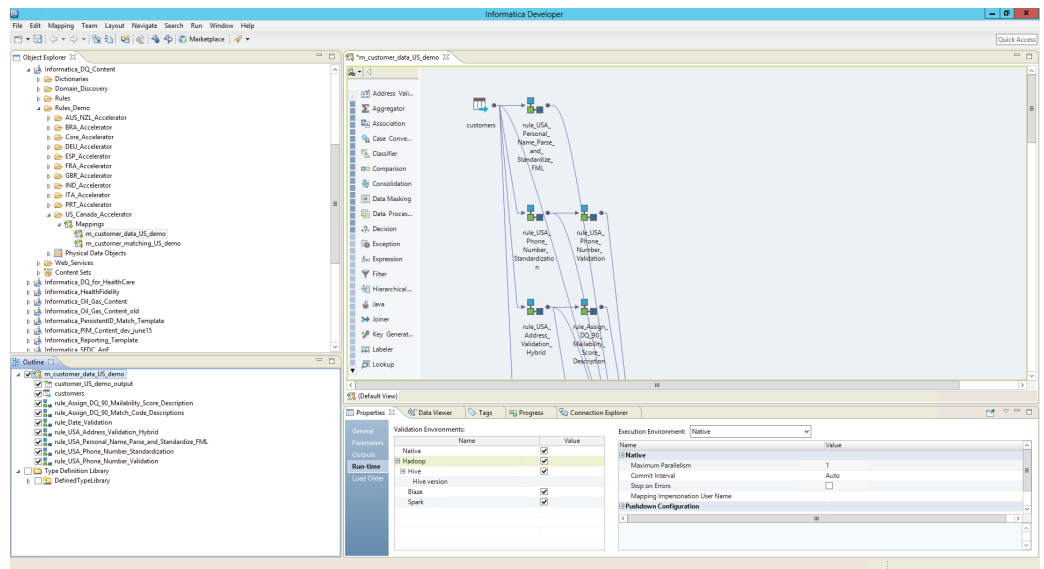

Figure 2: Data Quality logic runs natively on Hadoop.

Compete and Innovate With Big Data You Can Trust

Informatica Data Engineering Quality empowers your company to take a holistic approach to managing data quality across the enterprise. The solution transforms the way your data quality process is performed by empowering business users to take control of the data quality tasks, and facilitating business and IT collaborations. It delivers relevant and trustworthy data to all stakeholders, projects, and business applications—on-premises, in the cloud, or big data anywhere, including Hadoop, NoSQL, and other environments. With trusted, high-quality data available enterprise-wide, your company can revolutionize your business outcomes and outmaneuver your competition—by increasing sales, reducing costs, and effectively managing risk. You maximize the return on one of your most valuable assets—your data.