

Data Quality and Observability

Building a Trusted Foundation for Analytics and AI Excellence: Optimizing Data Quality

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Al-Powered Cloud Data Management

DATA CONSUMERS













Intelligent Data Management Cloud™

DISCOVER & UNDERSTAND

DATA

CATALOG



DATA INTEGRATION & ENGINEERING

ACCESS &

INTEGRATE

CONNECT & AUTOMATE



API & APP INTEGRATION **CLEANSE &** TRUST



DATA QUALITY & OBSERVABILITY

MASTER & RELATE



MDM & 360 **APPLICATIONS** **GOVERN & PROTECT**



GOVERNANCE. **ACCESS & PRIVACY**





Al-Powered Metadata Intelligence & Automation

Connectivity Metadata System of Record

DATA SOURCES

























Real-time / Streaming Sources











Databases



The Industry's Only Intelligent Data Management Cloud

Open and Flexible

Designed to work within your reference architecture

Low Code, No Code

Increased productivity for data engineers and citizen integrators

Best of Breed

Industry leading products and services all in one unified platform

Multi-cloud and Hybrid

Runs on and interoperates with what you have today and tomorrow

Leverages Best of Breed Open Source

Delivers open-source innovations without the complexity

API and Microservices Based

Modern architecture for optimal performance and resiliency

Elastic and Serverless

Cost optimized performance and scalability

Cloud Native

Built from the ground up for enterprise cloud workloads

Secure

Highest level of cloud security certifications and attestations

Single Uniform Consumption Pricing

Predictive and flexible pricing that adjusts to just what you need today





Put Simply Garbage in, Garbage out

Garbage Data Al
Analytics
Data Pipelines
Migrations
Modernization

Garbage Results

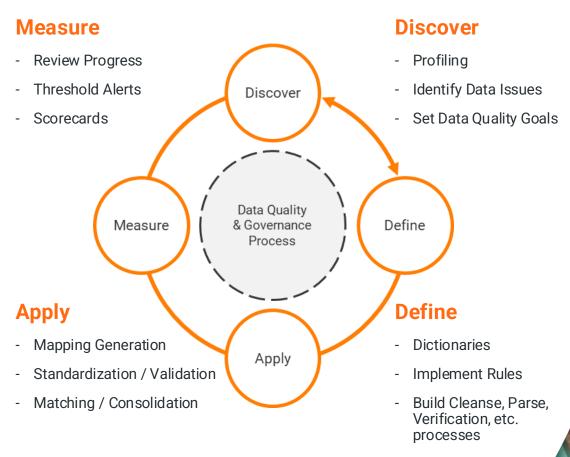


Data Quality

High-quality data is the essential ingredient for high-quality analytics.

What is Data Quality?

- There are many definitions of data quality!
- trustworthy & accurate
- Two Key characteristics
- High Quality Data
- Process by which to achieve high quality data (improve & monitor it)





Cloud Data Quality and Observability

Operationalize trust



Persona-aligned views on health



Automation for speed and scale



Manage and scale high-quality data pipelines for analytics & Al

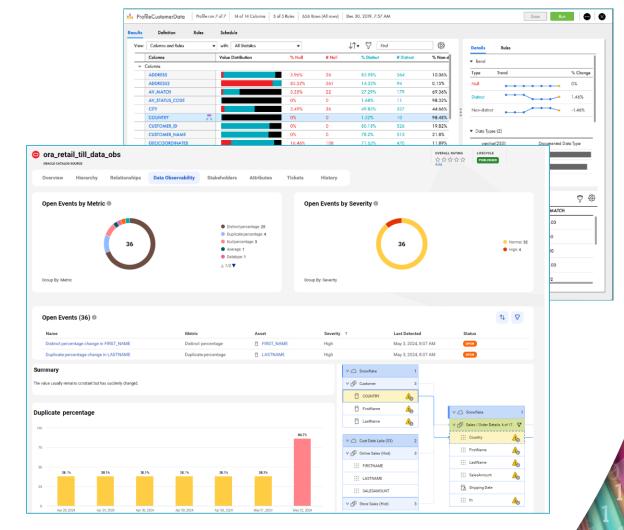




Data - Provide Visibility Into Data Health

Proactive detection of data quality issues and anomalies for faster remediation

- Proactively Monitor Data Quality
 - Ensure that data is complete, accurate, and consistent and pinpoint the source of issues and the potential impact
- Detect Anomalies and Outliers
 - Highlight data points that are unusual or unexpected and instances where data violates business rules and create alerts
 - Observe changes in various metrics of the data and alert data owners about anomalies in the changes
 - Learn from user input to automatically adjust anomaly detection algorithms over time

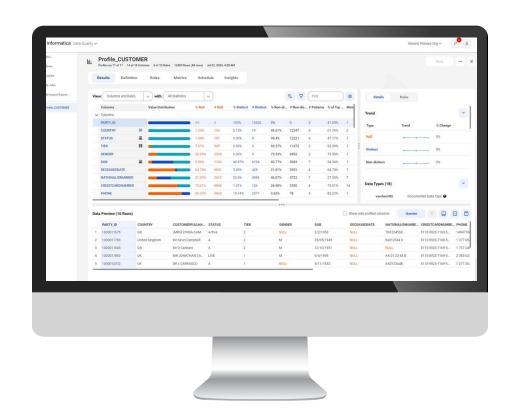






DEMO

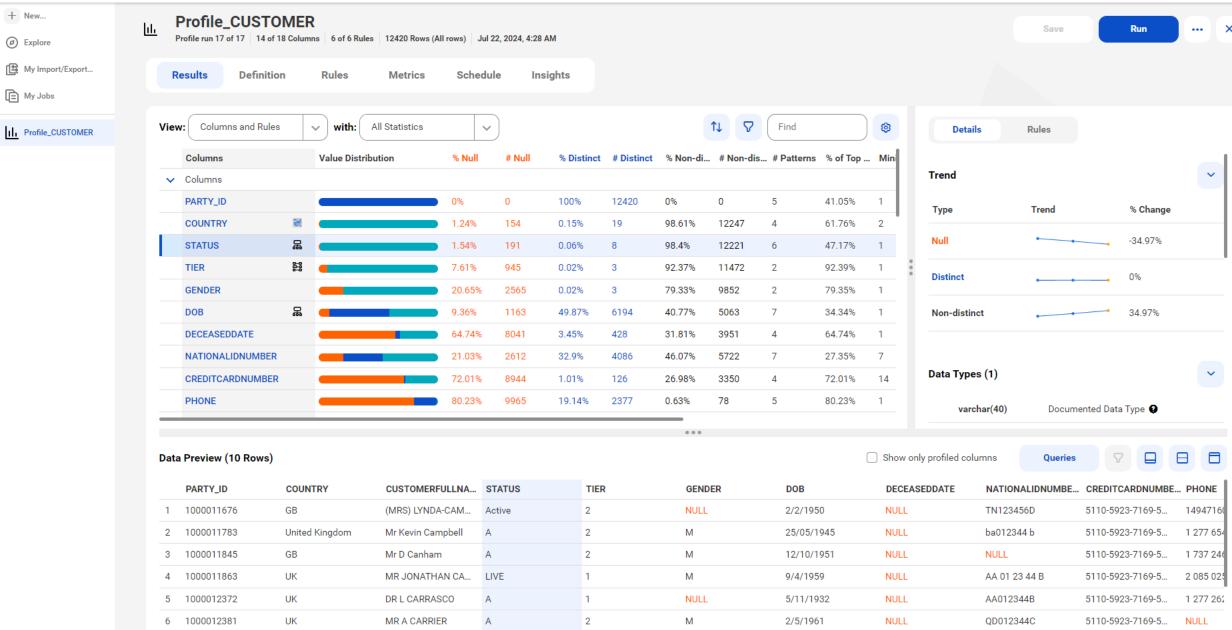
Data Quality

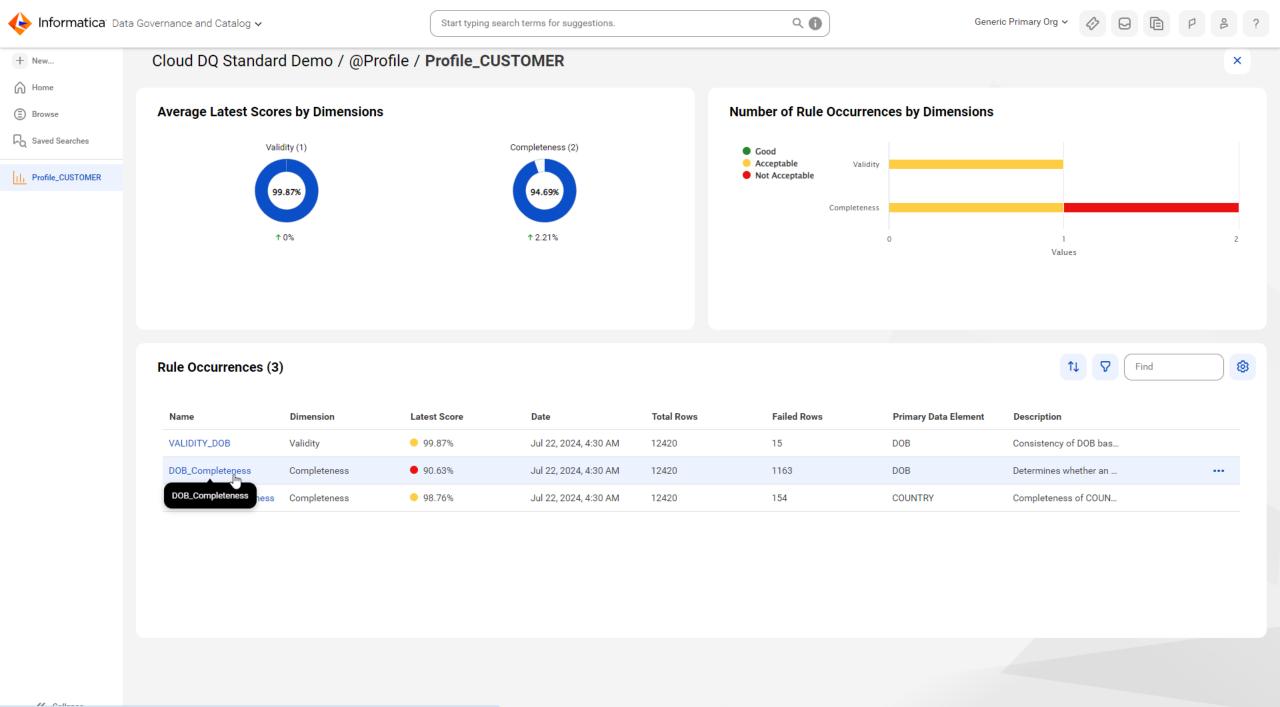




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Data Quality for Everyone, Everywhere

Use Cases

Core Capabilities Needed

Analytics, AI and ML

Profiling

Matching

Standardization and Cleansing

Verification and **Enrichment**

Data Engineering

Profiling

Matching

Parsing

Standardization and Cleansing

Master Data Management

Profiling

Parsing

Standardization and Cleansing

Verification and Enrichment

Data Governance

Profiling

Auto Rule Generation

Standardization and Cleansing

Data Quality Metrics

Data Observability

> Anomaly Detection

Data Lineage

Performance Optimization

Monitor and Alerting

Multidomain - Scalable - Hybrid





Data Analyst 🔑 Data Scientist 🚕



Data Engineer



Data Architects



Line of Business



Chief Data Officer







Thank You

Seán O' Shea / September 18th, 2024





Free 30-Day Trial: Cloud Data Quality

Experience a no-code, visual environment for creating and managing data quality capabilities—all built on a leading next-generation iPaaS.



In this trial, you can:

- Create business logic to validate assumptions and statements about your data.
- Verify the accuracy and formatting of data values on a data source or another object in a mapping.
- Publish and consume reusable data quality artifacts across all data integration initiatives, including cloud data warehousing and cloud data migrations.



https://www.informatica.com/trials/cloud-data-quality.html

Where data & AI come to









