Data Quality Framework

Our broad offering helps to determine that Data Quality is a continuing process and supports your strategic and tactical goals.

What is Deloitte’s Data Quality Framework?
Deloitte’s Data Quality (DQ) framework is designed to assess the data risks and data health, to analyze and provide insights into the root causes of poor data quality and to provide appropriate remediation recommendations to enhance data standardization activities. Data quality monitoring is performed on an ongoing basis to ensure sustainable data quality.

Program Management and Data Governance

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Iterative Approach

An independent research organization, 1. Gartner, Inc.

Common Culprits of Bad Data Quality

Architecture and Application Complexity
With today’s complicated integration architecture it is very difficult to track how changes to a system filters through and affects the others. Multiple, overlapping applications – often with non-integrated data sources can create a data environment highly susceptible to bad data quality.

Lack of ownership and responsibility for data quality
Without ownership of data quality at each integration point, there is a potential for assuming good data quality when in reality it is very poor.

Repetitive or ambiguous business processes
Repetitive or ambiguous business processes can create redundancy in how data quality is addressed, often resulting in data quality conflicts.

Unclear and multiple definitions of data elements
Mismatched syntax, formats, and structure from disparate data sources require consistent definitions of data elements to ensure clear mappings across the enterprise.

No clearly defined data quality escalation processes
Without clearly defined data quality escalation processes, known data quality issues may never be addressed.

Consequences of Bad Data Quality

Lack of real-time process execution and access to the enterprise data
High cost of managing data caused by inefficiency and redundancy of data
Inaccurate data element information results in wrong and irrelevant data deliveries
Inaccessible data can make even basic business questions difficult to answer
Manually-intensive activities, and error prone data integration processes
Data privacy and security compliances are not met
Unclear and multiple definitions of data elements

Consequences of Bad Data Quality

The Business Case for Data Quality
Organizations of various sizes and industries are recognizing the importance of high-quality data and the critical role of data quality in information governance and stewardship driven by broader enterprise information management initiatives. Without the assessment and monitoring of your data quality, unpleasant or even devastating consequences can follow. Deloitte has a broad experience when it comes to data quality. Analyzing risks and consequences can lead to valuable winnings in just a few steps.

1. Gartner, Inc.

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V. Add more text here if necessary.
Leverage our prebuilt solutions to enable your data quality needs in less time and with less cost.

**DQ Assessment and Governance**

For DQ assessment and discovery phase we would utilize our various accelerators to increase speed of delivery.

**Data Monitoring**

Data Quality remediation can be tracked through a feedback loop to the Data Quality Dashboard leveraging issue management and resolution framework.

**Data Quality Framework**

- **DQ Assessment and Governance**
  - Accelerators and Tools
  - For DQ assessment and discovery phase we would utilize our various accelerators to increase speed of delivery.

- **Data Monitoring**
  - Data Quality Executive Dashboard
  - Data Quality remediation can be tracked through a feedback loop to the Data Quality Dashboard leveraging issue management and resolution framework.

**Weighted Average approach to formulate metrics**

1. Identify attributes and classify as high priority (matching attributes) and low priority (non-matching).
2. Assign weights to high- and low-priority attribute sets within each dimension, and to the dimensions as a whole.
3. The score for a priority set is the average of its individual attribute scores.
4. The score for a dimension is the weighted average of the high- and low-priority set scores.
5. The score for a source system is the weighted average of its dimension scores.
6. Apply thresholds and prioritize areas to address.
   - KPIs and Business Processes
   - Systems: lowest overall score to highest
   - Dimensions: lowest weighted score to highest
   - Attributes: highest priority, then low priority
   - Data standards: lowest score to highest

**Enterprise Data Quality Scorecard**

- **Weighted Score Card**
  - A methodical approach will be applied to formulate metrics for key attributes, DQ dimensions, and source systems.
  - Weighting system drives allocation of values to data quality dimensions and attribute sets.
  - Scores are rolled bottom up.
  - Criticality of each data quality dimensions and default values are determined based on business requirements.

**Take Action**

Do you have questions or comments about how Deloitte can help you with your Data Quality issues?

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