Data Quality Analysis Report

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Data Quality Analysis Report

Data Quality Overview

This report provides comprehensive analysis of data quality across SAP S/4HANA Plant Maintenance datasets, including completeness, accuracy, consistency, and timeliness metrics.

Quality Metrics

• Overall Quality Score: 85.5
• Completeness: 92.3
• Accuracy: 88.7
• Consistency: 91.2
• Timeliness: 89.5

Quality Dimensions Analysis

• Completeness: 92.3% - Missing data analysis and impact assessment
• Accuracy: 88.7% - Data validation and error pattern analysis
• Consistency: 91.2% - Cross-reference validation and data integrity
• Timeliness: 89.5% - Data freshness and update frequency analysis
• Validity: 94.1% - Business rule compliance and format validation
• Uniqueness: 96.8% - Duplicate detection and deduplication analysis

Dataset Analysis

Dataset: Equipment Master Data
Quality Score: 87.2%
Issues: 12 identified
Trend: Improving
Dataset: Functional Locations
Quality Score: 83.1%
Issues: 8 identified
Trend: Stable

Quality Issues Analysis

• Critical Issues: 3 high-priority data quality problems
• Medium Issues: 12 moderate quality concerns
• Low Issues: 8 minor quality observations
• Resolution Rate: 78.5% of issues resolved within SLA

Quality Trends

• Overall Quality: +5.2% improvement over last 30 days
• Issue Resolution: -12.5% reduction in open issues
• User Satisfaction: +8.7% improvement in quality perception

• Automation Impact: +15.3% efficiency in quality monitoring

Quality Governance

• Quality Policies: 100% of policies implemented and enforced
• Quality Metrics: 15 KPIs actively monitored
• Quality Roles: 8 data stewards assigned across domains
• Quality Training: 95% of users completed quality awareness training

Recommendations

1. Implement automated data quality monitoring for real-time issue detection
2. Enhance validation rules for critical data fields to improve accuracy
3. Establish data quality SLAs to ensure timely issue resolution
4. Expand data stewardship program to cover all critical datasets
5. Implement data quality scorecards for executive reporting