Data quality monitoring

Definition

Data quality monitoring is monitoring with regard to data quality issues.

Synonyms

Data quality measuring

Purpose

The purpose of data quality monitoring is:

- To gain insight into data issues, both on individual level and statistically (dashboard),
- To be able to follow and track the number of data issues in time,
- To be able to correct data issues and to analyse the cause of data issues (see factsheet data issues).

Life cycle

Phase	Activity
Plan	* Establish the scope of data quality monitoring. * Decide which tool will be used to apply Data quality monitoring. * Implement the tool. * Establish the data quality rules that will be applied. * Assign roles and responsibilities.
Do	* Run data quality monitoring periodically to detect data issues. * Use the results of data quality monitoring for solving the data issues.
Check	* Evaluate the effectiveness and costs of Data quality monitoring
Act	* Adapt the data quality rules. * Make other changes: scope, tool, roles and responsibilities.

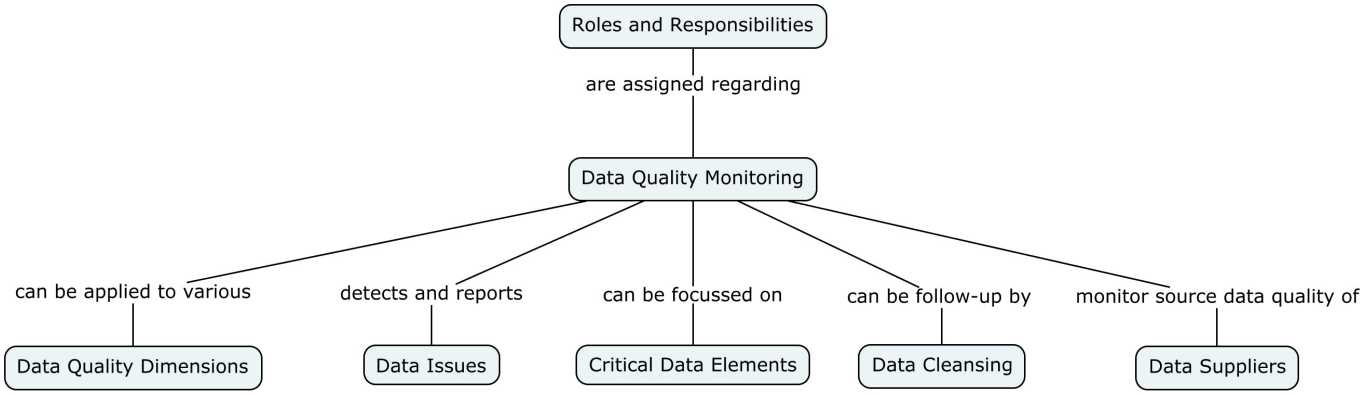
Characteristics

Characteristic	Requirement
Efficiency	Data quality monitoring should be done efficiently and cost-effective.
Effectivensss	Data quality monitoring should be effective.

Relations

Data quality monitoring	is child of	monitoring
Data quality monitoring	is an element of a	data quality management system
Data quality monitoring	can be focussed on	critical data elements
Data quality monitoring	detects and reports	data quality issues
Data quality monitoring	can be input for or is part of	data cleansing

Data quality monitoring	can be applied to various	data quality dimensions
Data quality monitoring	is assigned to	roles and responsibilities
Data quality monitoring	will monitor the quality of the data of	data suppliers
Data quality monitoring	needs	data quality rules



Story

A municipality wants to improve and guarantee the quality of its property register. First, they want to get an insight into the situation before they start improving. Therefore, they first purchase a tool with which, the quality of the data can be efficiently measured and monitored. They set the right data quality rules in the tool and produce their first report. It shows that there are two percent locations outside the municipal boundaries and that there are property categories that are not consistent with the description of the property.

Based on this report, the municipality decided to first solve the problem of inaccurate locations. This is where they suffer the most. They start a process of Data Cleansing to solve this. Partly, they do this by comparing the register with another file. For another part, the objects are visited by officials and the locations are redetermined. The monitor measures the progress of the cleaning action. Furthermore, an extra check have been built into the application with which new objects are entered, so that this problem can no longer occur.

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