

# Consistency

## Definitions

- Temporal consistency is the degree to which **data values** of a **data element** of a **dataset** at different points in time comply with a **data quality rule**.
- Consistency across datasets is the degree to which **data values** of **data elements** of different **datasets** comply with a **data element** of a **dataset** at different points in time comply with a **data quality rule**.
- Cross records consistency is the degree to which **data values** between **data records** comply with a **data element** of a **dataset** at different points in time comply with a **data quality rule**.
- Record level consistency is the degree to which two **data values** within a **data record** comply with a **data element** of a **dataset** at different points in time comply with a **data quality rule**.

## Relation(s)

- Consistency is a **characteristic** of **data values** of **data element** of a **dataset**.
- Consistency is a **characteristic** of **data values** of **data elements** of different **datasets**
- Consistency is a **characteristic** of **data values** between **data records**.
- Consistency is a **characteristic** of **data values** within a **data record**

## Examples

### Inconsistency within a record

Adress	Postcode	City
Veldweg 11	8051 NK	Hattem

- Postcode doesn't match with adress.
- Data quality rule: The postcode matches the address according to the postcode table

### Inconsistency within a file

ID	Customer	City name
248	Johson	Alphen aan den rij
2342	Smith	Alphen a/d rij

- Different in spelling in city names.
- Data quality rule: City names are spelled out in a uniform manner.

### Inconsistency between two files

Customer ID	Initials	Name
4320	T	Sanders
Customer ID	Initials	Name
4320	T.M.D	Sanders

- Inconstistency: Different initials of the same customer.
- Data quality rule: Initials of the same person are the same.

## Reference(s)

DAMA NL (2020). Dimensions of Data Quality (DDQ). Research paper.

<https://www.dama-nl.org/wp-content/uploads/2020/09/DDQ-Dimensions-of-Data-Quality-Research-Paper-version-1.2-d.d.-3-Sept-2020.pdf>

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