

# Completeness

## Definitions

- Completeness of [data values](#) is the degree to which all required [data values](#) are present.
- Completeness of [data elements](#) is the degree to which all required [data elements](#) in the [dataset](#) are present.
- Completeness of [data records](#) is the degree to which all required [data records](#) in the [dataset](#) are present.
- Completeness of [data files](#) is the degree to which all required [data files](#) in a [dataset](#) are present.
- Completeness of [metadata](#) is the degree to which [metadata](#) is fully described.

## Note

Missing values is a term used to indicate that [data values](#) are not complete.

## Relations

Completeness is a [characteristic](#) of [data values](#), [data elements](#), [data records](#), [data files](#) and [metadata](#).

## Examples

### Incomplete data value

| Name    | Email |
|---------|-------|
| Johnson |       |

E-mail is missing value for Johnson.

### Incomplete data element

| Surname  | City  |
|----------|-------|
| Williams | Paris |

First name is missing as data element.

### Incomplete data records

| Surname       | City  |
|---------------|-------|
| Hank Williams | Paris |

Steve Kerr is missing in this file.

### Incomplete data files

A reference file for all cities in UK is missing.

### Incomplete metadata

| Data element | Data type | Definition |
|--------------|-----------|------------|
| Name         | Character |            |

Definition of data element 'Name' is missing.

### 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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Last update: **2024/03/08 13:33**