







DATA TYPE CONVERSION

All fields in a data source have a data type. The data type reflects the kind of information stored in that field, for example integers (546), dates (11/20/2021) and strings (“Customer”). The data type of a field is identified in the Data pane by one of the icons shown below.

| Icon | Data Type |
|---|----------------------------------|
|  | Text / String values |
|  | Date values |
|  | Date & Time values |
|  | Numerical values (decimal/whole) |
|  | Boolean values |
|  | Geographic values |

Mostly Tableau will detect the fields correctly and assign the appropriate data types. However, there might be some occasions where we may have to manually change the data type as per our requirement. We will go through the possible data type conversions

NUMBER (DECIMAL) DATA TYPE CONVERSIONS

SOURCE DATA TYPE

Number (decimal)

TARGET DATA TYPE

Number (whole)

Decimal point is removed, and number approximated to closest whole number
e.g: 261.96 to 262

Date && Time

Number changed to Date format 01-01-1900 00:00:00, A number is treated as the day in numeric order from 01-01-1990

Date

Number changed to Date format 01-01-1900, A number is treated as the day in numeric order from 01-01-1990

String

Numbers are treated as text

Boolean

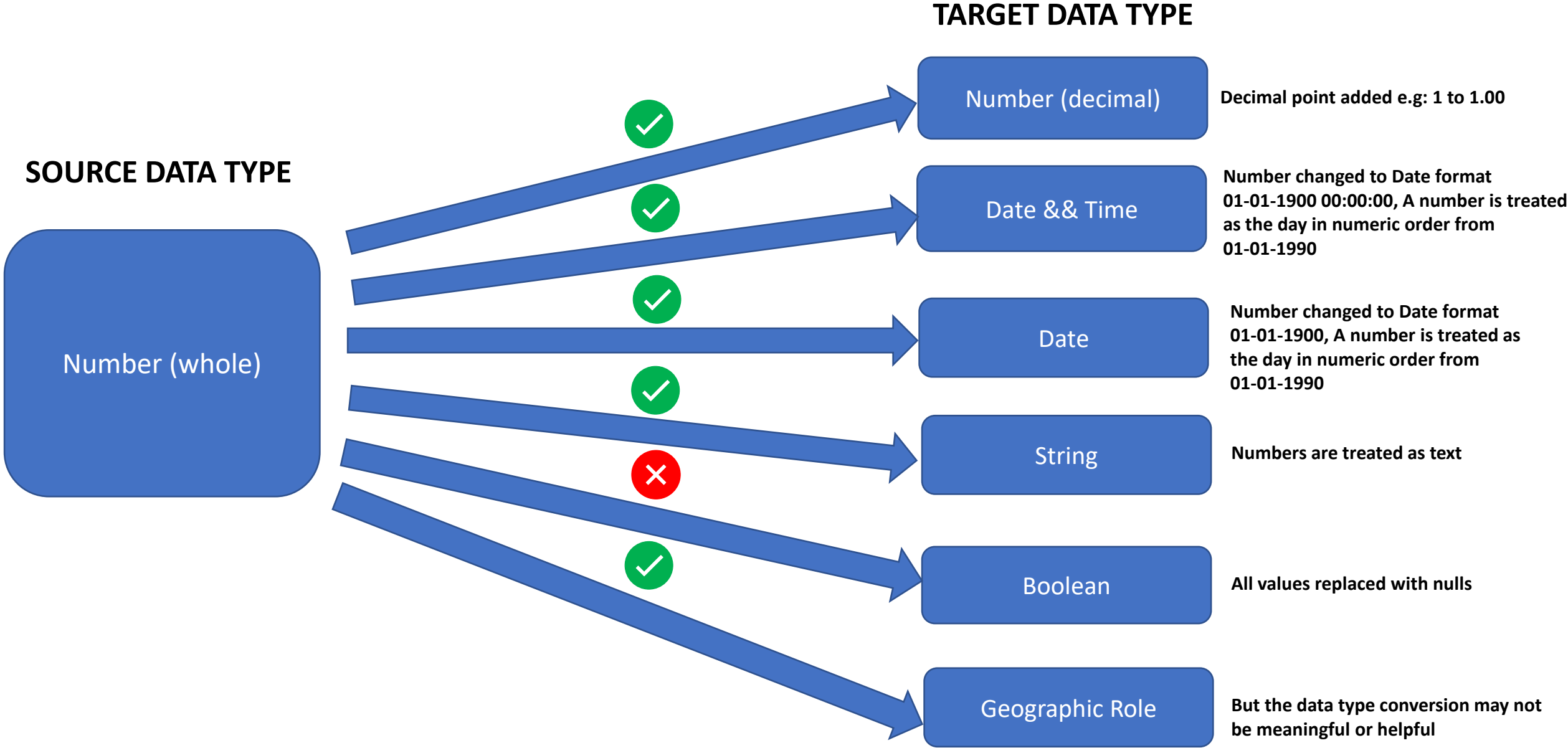
All values replaced with nulls

Geographic Role

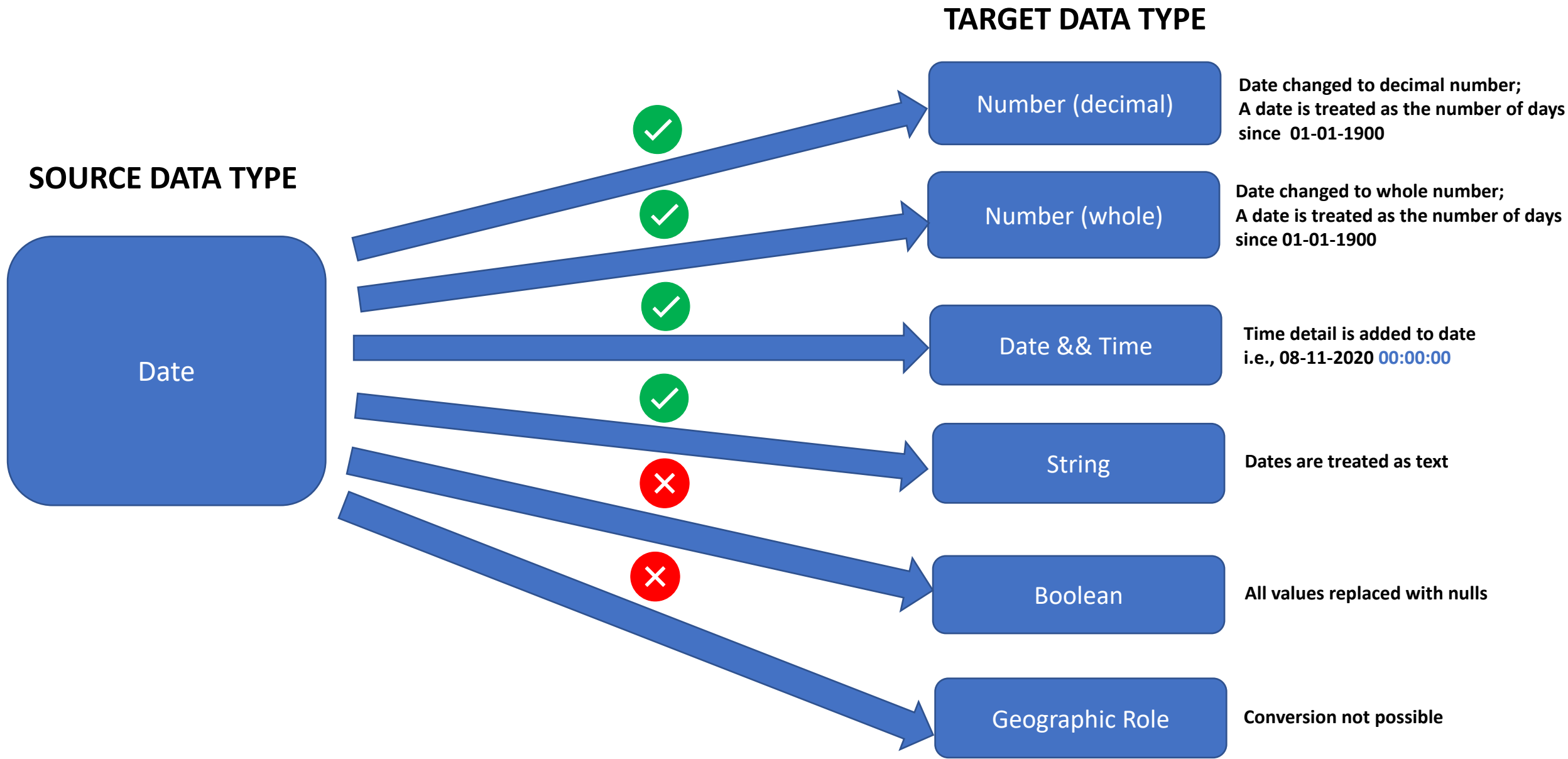
But the data type conversion may not be meaningful or helpful



NUMBER (WHOLE) DATA TYPE CONVERSIONS



DATE DATA TYPE CONVERSIONS



DATE & TIME DATA TYPE CONVERSIONS

SOURCE DATA TYPE

Date & Time

TARGET DATA TYPE

Number (decimal)

Date changed to decimal number;
A date is treated as the number of
days since 01-01-1900

Number (whole)

Date changed to whole number;
A date is treated as the number of days
since 01-01-1900

Date

The time portion is removed

String

Dates are treated as text

Boolean

All values replaced with nulls

Geographic Role

Conversion not possible



STRING DATA TYPE CONVERSIONS

SOURCE DATA TYPE

String

TARGET DATA TYPE

Number (decimal)

All values replaced with nulls

Number (whole)

All values replaced with nulls

Date && Time

All values replaced with nulls

Date

All values replaced with nulls

Boolean

All values replaced with nulls

Geographic Role

But the data type conversion may not be meaningful or helpful



BOOLEAN DATA TYPE CONVERSIONS

SOURCE DATA TYPE

Boolean

TARGET DATA TYPE

Number (decimal)

All values replaced with nulls

Number (whole)

True replaced with 1 and
False replaced with 0

Date && Time

All values replaced with nulls

Date

All values replaced with nulls

String

True replaced with TRUE and
False replaced with FALSE

Geographic Role

But the data type conversion may not
be meaningful or helpful



GEOGRAPHIC DATA TYPE CONVERSIONS

