Analysis of Table MEAN

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Cleansing

Before the mapping table (MEAN) can be analyzed for the entitiy relationship, any invalid records need to be excluded. The following assumptions/Checks are made on the validity of records:
1. Only the Unit of Measure (UoM) of importance is: ST
2. The supplier EAN (HE) is the main EAN if existing.

MEINH

The following table shows a count on the Unit of measure (UoM).

```
##
##     EA    KAR     ML    PAK     ST
##     41    380      6    380 156889
```

As can be seen there are 807 other Units of Measure in the table. These will be excluded from the further analysis.

HPEAN

The following table shows a count on EANTP and HPEAN.

```
##
##            -      X
##   HE     80  48161
##   Z1  10781  20073
##   Z2  35781  15334
##   Z3  18933   7746
```

Note there are 80 entries with EANTP = HE but which are not marked as HPEAN
(is this correct)?

The rest of the analysis will focus on the Z* EANTP by excluding HE.

N:1 Relationship

The table below show if 1 legacy article is mapped against multiple SAP articles. This relationship could be valid for Suppliers EAN (HE). Howerever for other EANTP it should not exist!

```
##
##   Z1    Z2    Z3
##    6   203  8244
```

```
##
## DUPLICATE        DUP    102657    109429    110884    110885    110887
##     7624        616         2         2         2         2         2
##   110888     110889    110892
##        2          2         2


##      SYSTID               MATNR MEINH LFNUM        EAN11 EANTP HPEAN
##  1:     RA1 000000000010212149    ST     3     30030387    Z1    NA
##  2:     RA1 000000000010215726    ST     1     30030387    Z1    NA
##  3:     RA1 00000000010219252     ST     2     70001324    Z1     X
##  4:     RA1 00000000010219253     ST     2     70001326    Z1     X
##  5:     RA1 00000000010100749     ST     3        42406    Z2    NA
##  6:     RA1 00000000010130826     ST     4       142632    Z2    NA
##  7:     RA1 00000000010130842     ST     1       132968    Z2    NA
##  8:     RA1 00000000010130932     ST     4       129937    Z2    NA
##  9:     RA1 00000000010100312     ST     2 VOID - 38365    Z3    NA
## 10:     RA1 00000000010131192     ST     2 VOID - 38365    Z3    NA
## 11:     RA1 00000000010137230     ST     2 CF REG PURMO    Z3    NA
## 12:     RA1 00000000010139449     ST     2   SE VEDB10     Z3    NA
```

It seems that there are 2 special types which will be excluded from further analysis, being:
1. DUPLICATE
2. DUP

In total there are 8453 entries which should not exist! In case Z3 can be ignored only 0 remain. All N:1 relationships will be excluded from further analysis.

Analysis

The rest of the analysis will focus on the ST UoM.

Remaining are 100191 records.
Following table gives an initial view on the data

```
##      SYSTID               MATNR MEINH LFNUM        EAN11 EANTP HPEAN
##  1:     RA1 000000000010100022    ST     1 VOID - 42407    Z1    NA
##  2:     RA1 000000000010100312    ST     2 VOID - 38365    Z3    NA
##  3:     RA1 000000000010100749    ST     3        42406    Z2    NA
##  4:     RA1 000000000010100753    ST     1 VOID - 19388    Z1    NA
##  5:     RA1 000000000010116282    ST     2        24457    Z1     X
##  6:     RA1 000000000010116299    ST     1     29001187    Z1     X
##  7:     RA1 000000000010129804    ST     1       152655    Z1     X
##  8:     RA1 000000000010130447    ST     1       153294    Z1     X
##  9:     RA1 000000000010130450    ST     1       153300    Z1     X
## 10:     RA1 000000000010130698    ST     2        38669    Z1     X
```