Evaluation criterium 17: Error Handling

Implemented in macro for load-view

Step 1: Get attributes with names as VARCHAR

Step 2: try_to-Cast to defined datatype

Step 3: If result of cast is NULL and RAW-value was NOT NULL...an error has occurred: the type-check failed

Step 4: All type-checks, duplicate-checks and empty-key-checks are connected to one column: **is_check_ok**
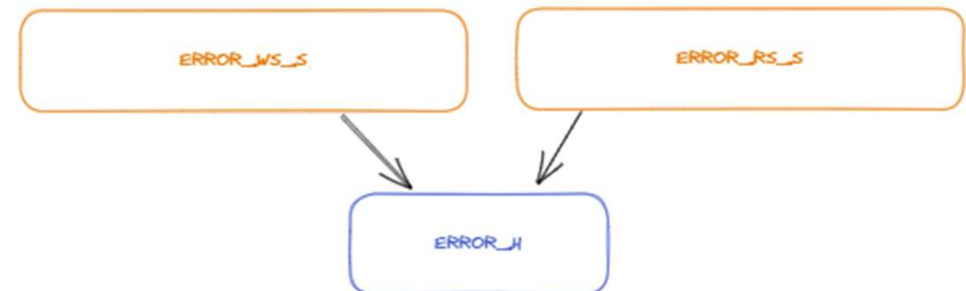
```
1   with
2   raw_data AS
3   (
4       SELECT
5               TRIM(replace(right(filenamedate,19),'.csv',''))::STRING) as ldts_raw
6             , TRIM(filenamedate::STRING) as rsrc_raw
7             , TRIM(trim(reverse(substring(reverse(replace(filenamedate,'.csv','')), 17,8))::varchar)::STRING) as edts_in_raw
8             , TRIM(value::STRING) as raw_data_raw
9             , TRIM(metadata$file_row_number::STRING) as row_number_raw
10            , TRIM(value:c1::STRING) as bestellungid_raw
11            , REPLACE(TRIM(value:c4::STRING) , ',', '') as spezlieferadrid_raw
12            , TRIM(value:c6::STRING) as preis_raw
13        FROM DWS.DWH_01_EXT.EXT_WEBSHOP_POSITION
14  )
15  SELECT
16        TRY_TO_TIMESTAMP(ldts_raw, 'YYYYMMDD_HH24MISS') as ldts
17      , rsrc_raw as rsrc
18      , TRY_TO_DATE(edts_in_raw, 'YYYYMMDD') as edts_in
19      , raw_data_raw as raw_data
20      , TRY_TO_NUMBER(row_number_raw) as row_number
21      , bestellungid_raw as bestellungid
22      , TRY_TO_NUMBER(spezlieferadrid_raw) as spezlieferadrid
23      , TRY_TO_TIMESTAMP(ldts_raw, 'YYYYMMDD_HH24MISS') IS NOT NULL OR ldts_raw IS NULL as is_ldts_type_ok
24      , TRY_TO_NUMBER(row_number_raw) IS NOT NULL OR row_number_raw IS NULL as is_row_number_type_ok
25      , TRY_TO_NUMBER(spezlieferadrid_raw) IS NOT NULL OR spezlieferadrid_raw IS NULL as is_spezlieferadrid_type_ok
26      , ROW_NUMBER() OVER (PARTITION BY ldts,bestellungid,PosID ORDER BY ldts,bestellungid,PosID) = 1 AS is_dub_check_ok
27      , COALESCE(bestellungid_raw, '') <> '' as is_bestellungid_key_check_ok
28      , is_ldts_type_ok AND is_edts_in_type_ok AND is_row_number_type_ok AND [...] is_check_ok
29      , TO_VARIANT(ARRAY_EXCEPT([REPLACE(IFF(NOT is_ldts_type_ok,'{"ldts":"' || COALESCE(TO_VARCHAR(ldts_raw) ,'') || '"}','')) [...]) chk_all_msg
30  FROM raw_data
```

Evaluation criterium 17 (cont): Error Handling

Based on the column is_check_ok, erroneous data can easily be excluded
from the further standard process and loaded into the error-vault.

We defined one Error-Satellite for each source-system
- one column with all the RAW_DATA as json
- one column with a summary of all the failed checks

ABC HK_ERR▾	ABC HD_ERROR_S ▾	ABC RSRC ▾	⏱ LDTS ▾	ABC RAW_DATA ▾	ABC CHK_ALL_MSG ▾
ccfab07212b8d9	473573925348e17434f9029bf43b15bf	ldts/webshop/produkt/p	2022-03-12 08:00:00.000	{"c1":"21","c2":"GMiCHILI ","c3":"Chili „Vietnam -	[¶ "{\"dub_check\": \"ldts,produktid\"}"¶]
1024342fa04781	d6b87cdd56e915602e19f87144caa336	ldts/webshop/produkt/p	2022-03-12 08:00:00.000	{"c1":"20","c2":"GMiCHILI ","c3":"Chili, Jalapeno „l	[¶ "{\"dub_check\": \"ldts,produktid\"}"¶]
48cdfe3c66440f!	6f6417f0fbf8fc24d6a7cdd0058c3e68	ldts/webshop/lieferdiens	2022-03-19 08:00:00.000	{"c10":"Niedersachsen","c2":"Schalalala OHG","c3	[¶ "{\"dub_check\": \"ldts,LieferDienstID\"},{\"key_check\": \"LieferDienstID\"}"¶]
d68849e38209ca	ffe8dcbc1c84e3bde8166b67dae9e6dd	ldts/webshop/lieferdiens	2022-03-19 08:00:00.000	{"c2":"Femen AG","c3":"06257/279376925","c4":"N	[¶ "{\"key_check\": \"LieferDienstID\"}"¶]