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/* Freek Keijzer, myBrand, 16.09.2020
Loosely based on standard SAP view P_MaterialStockTimeSeries.

Key figures:
MatlWrhsStkQtyInMatlBaseUnit - Stock Level Quantity at end of period
MatlStkChangeQtyInBaseUnit   - Stock Change Quantity in period
MatlStkChangeQtyRolYearInBU  - Stock Change Quantity in Rolling Year
CountMatDocPos               - No Material Document Items contributing to Stock Change in period
NDays                        - No Days within period
NDaysRolYear                 - No Days within Rolling Year till end of period (365 or 366)

Only the first key figure was available in the standard SAP view.
The others are results of the custom enhancements.
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Change-log:
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@EndUserText.label: 'MM: Stock Time Series'
@AbapCatalog.sqlViewName: 'ZPMMINVSTOCKTS'

@AbapCatalog.compiler.compareFilter: true
@AbapCatalog.preserveKey: true
@AccessControl.authorizationCheck: #CHECK

define view ZP_MM_INV_STOCK_TS
  with parameters
    P_StartDate  : vdm_v_start_date,
    P_EndDate    : vdm_v_end_date,
    P_PeriodType : nsdm_period_type
  as select from ZP_P_MaterialStockTimeSeries1(P_StartDate:  :P_StartDate,
                                               P_EndDate:    :P_EndDate,
                                               P_PeriodType: :P_PeriodType )
//--Association to determine Company Code Currency
  association [1..1] to I_CompanyCode as _CompanyCode on  $projection.CompanyCode = _CompanyCode.CompanyCode
{
      // Period
key PeriodType,
key StartDate,
key EndDate,
key YearPeriod,
      // Stock Identifier
key Material,
key Plant,
key StorageLocation,
key Batch,
key Supplier,
key SDDocument,
key SDDocumentItem,
key WBSElementInternalID,
key Customer,
key InventoryStockType,
key InventorySpecialStockType,
key CostEstimate,
      // Units
key MaterialBaseUnit,
      // Stock Groups
key CompanyCode,
key FiscalYearVariant,
key StockChangeCategory,                          //Type of Stock Change = 'GR','GI'
```

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    @Semantics.currencyCode: true
    cast(max(_CompanyCode.Currency) as nsdm_comp_code_currency preserving type)  as CompanyCodeCurrency,

    StartDateRolYear,                              //Start Date of "Rolling Year" till end of time period, e.g. 25.09.2020 -> 26.09.2019

//--Quantities
    @Semantics.quantity.unitOfMeasure: 'MaterialBaseUnit'
    cast(sum(MatlWrhsStkQtyInMatlBaseUnit) as nsdm_stock_qty preserving type) as MatlWrhsStkQtyInMatlBaseUnit,
    @Semantics.quantity.unitOfMeasure: 'MaterialBaseUnit'
    cast(sum(MatlStkChangeQtyInBaseUnit)   as nsdm_stock_qty preserving type) as MatlStkChangeQtyInBaseUnit,
    @Semantics.quantity.unitOfMeasure: 'MaterialBaseUnit'
    cast(sum(MatlStkChangeQtyRolYearInBU)  as nsdm_stock_qty preserving type) as MatlStkChangeQtyRolYearInBU,

    sum(CountMatDocPos) as CountMatDocPos,

    (DATS_DAYS_BETWEEN(StartDate,        EndDate) + 1) as NDays,
    (DATS_DAYS_BETWEEN(StartDateRolYear,EndDate) + 1) as NDaysRolYear
}
where
  PeriodType = :P_PeriodType
group by
  PeriodType,
  StartDate,
  EndDate,
  YearPeriod,
  Material,
  Plant,
  StorageLocation,
  Batch,
  Supplier,
  SDDocument,
  SDDocumentItem,
  WBSElementInternalID,
  Customer,
  InventoryStockType,
  InventorySpecialStockType,
  CostEstimate,
  MaterialBaseUnit,
  CompanyCode,
  FiscalYearVariant,
  StockChangeCategory,
  StartDateRolYear
```