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/* Freek Keijzer, myBrand, 21.09.2020
Based on standard SAP view I_MaterialStock_Aggr.
Custom enhancements:
- Additional key field StockChangeCategory to be passed on to views with time series
- Counter for Material Document Items
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Change-log:
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-----*/
@EndUserText.label: 'MM: I_MaterialStock_Aggr (enhanced)'
@AbapCatalog.sqlViewName: 'ZIMATSTOCKAGGR'

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

define view ZP_I_MaterialStock_Aggr
as select from ZB_I_MaterialDocumentRecord
association [1..1] to I_UnitOfMeasure as _UnitOfMeasure on $projection.MaterialBaseUnit = _UnitOfMeasure.UnitOfMeasure
{
    // All fields have to be defined as key field and quantity/value have to be summarized on this lowest level
    // in addition to the annotation for aggregation (#SUM)
    // This is especiall required for consumption views used by users with restricted authorization to get the right results
    // (just because right now an INNER JOIN is created which may multiply the result set and hence the aggregate is wrong)

    // Stock Identifier
    key StockIdentifyingMaterial as Material,
    key Plant as Plant,
    key cast(StockIdfgStorageLocation as lgor_d) as
StorageLocation,
    key StockIdentifyingBatch as Batch,
    key SpecialStockIdfgSupplier as Supplier,
    key SpecialStockIdfgSalesOrder as SDDocument,
    key SpecialStockIdfgSalesOrderItem as
SDDocumentItem,
    key SpecialStockIdfgWBSElement as
WBSElementInternalID,
    key SpecialStockIdfgCustomer as Customer,
    key SpecialStockIdfgStockOwner,
    key InventoryStockType as
InventoryStockType,
    key InventorySpecialStockType as
InventorySpecialStockType,
    // Further Stock Groups
    @Semantics.fiscal.yearVariant: true
    key FiscalYearVariant as
FiscalYearVariant,
    @Semantics.businessDate.at: true
    key PostingDate as
MatlDocLatestPostgDate,
    // Units
    @Semantics.unitOfMeasure
    key MaterialBaseUnit as
MaterialBaseUnit,
    key CostEstimate,
    -----
    //-----Start of custom enhancement, part 1/1
    -----
    //----Additional key field to be passed on to views with time series

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    key StockChangeCategory,

//----Counter for Material Document Items
    sum(CountMatDocPos) as CountMatDocPos,          //No Material Document Items
//-----
//-----End of custom enhancement, part 1/1
//-----

    CompanyCode                                     as CompanyCode,

    // Quantities
    @Semantics.quantity.unitOfMeasure: 'MaterialBaseUnit'
    @DefaultAggregation : #SUM
    cast(sum(MatlStkChangeQtyInBaseUnit) as nsdm_stock_qty preserving type)
as MatlWrhsStkQtyInMatlBaseUnit,
    @Semantics.quantity.unitOfMeasure: 'MaterialBaseUnit'
    @DefaultAggregation : #SUM
    cast(sum(MatlCnsmprQtyInMatlBaseUnit) as nsdm_consumption_qty preserving type)
as MatlCnsmprQtyInMatlBaseUnit,
    @Semantics.quantity.unitOfMeasure: 'MaterialBaseUnit'
    @DefaultAggregation : #SUM
    cast(sum(case when MatlStkChangeQtyInBaseUnit > 0 then MatlStkChangeQtyInBaseUnit else 0 end) as nsdm_stock_increase_qty preserving type)
as MatlStkIncrQtyInMatlBaseUnit,
    @Semantics.quantity.unitOfMeasure: 'MaterialBaseUnit'
    @DefaultAggregation : #SUM
    cast(sum(case when MatlStkChangeQtyInBaseUnit < 0 then abs(MatlStkChangeQtyInBaseUnit) else 0 end) as nsdm_stock_decrease_qty preserving type)
as MatlStkDecrQtyInMatlBaseUnit,

    _UnitOfMeasure
}
where
    MaterialBaseUnit <> ''
group by
    StockIdentifyingMaterial,
    Plant,
    StockIdfgStorageLocation,
    StockIdentifyingBatch,
    SpecialStockIdfgSupplier,
    SpecialStockIdfgSalesOrder,
    SpecialStockIdfgSalesOrderItem,
    SpecialStockIdfgWBSElement,
    SpecialStockIdfgCustomer,
    SpecialStockIdfgStockOwner,
    InventoryStockType,
    InventorySpecialStockType,
    CompanyCode,
    FiscalYearVariant,
    PostingDate,
    MaterialBaseUnit,
    CostEstimate,
    StockChangeCategory

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