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/* Freek Keijzer, myBrand, 30.08.2020
Based on standard SAP cube-view I AugmentedGoodsMovement.
Enhancement: Calculation of goods movement & stock values using current price.
Logic copied from standard SAP CDS-view P MatStkQtyValCur2.
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-----*/
@EndUserText.label: 'MM: Goods Movements & Stock, enrichment'
@AbapCatalog.sglViewName: 'ZPMMINVGDSMV'
@AbapCatalog.compiler.compareFilter: true
@AbapCatalog.preserveKey: true
@AccessControl.authorizationCheck: #CHECK
define view ZP MM INV GDSMV
as select from ZP I GoodsMovementDocument as I GoodsMovementDocument
// Associations required for authorization checks
left outer to one join I StorageLocation as AuthStorageLocation on I GoodsMovementDocument.Plant = AuthStorageLocation.Plant
                                                        and I GoodsMovementDocument.StorageLocation = AuthStorageLocation.StorageLocation
                                                        and AuthStorageLocation.IsStorLocAuthznCheckActive = 'X'
left outer to one join I StorageLocation as AuthStorageLocationTr on IssuingOrReceivingPlant = AuthStorageLocationTr.Plant
                                                          and IssuingOrReceivingStorageLoc = AuthStorageLocationTr.StorageLocation
                                                         and AuthStorageLocationTr.IsStorLocAuthznCheckActive = 'X'
//----Start of custom enhancement, part 1/2
 association[0..1] to I CurrentMatlPriceByCostEst as CurrentInvtryPrice on $projection.CostEstimate = CurrentInvtryPrice.CostEstimate
//----End of custom enhancement, part 1/2
//-----
     @Semantics.calendar.year: true
 key MaterialDocumentYear,
 key MaterialDocument,
 key MaterialDocumentItem,
 key MaterialDocumentRecordType,
//----Start of custom enhancement, part 2/2
//-----
//--Additional field for determination of current price
   CostEstimate,
                                         // Cost Estimate Number - Product Costing (matdoc.kalnr)
//--Amount using current price, logic copied from standard SAP CDS-view P MatStkQtyValCur2
   @Semantics.amount.currencyCode: 'CompanyCodeCurrency'
   @DefaultAggregation: #NONE
   cast ( round (
                cast(MatlStkChangeQtyInBaseUnit as abap.dec( 18, 3 )) *
                          cast( CurrentInvtryPrice.InventoryPrice as abap.dec( 11, 2 )),
                          cast( CurrentInvtryPrice.MaterialPriceUnitQty as abap.dec( 5, 0 )),
                 , 3
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as nsdm stk chg amount
         ) as MatlStkChangeVal,
//----End of custom enhancement, part 2/2
     I GoodsMovementDocument.Plant,
     I GoodsMovementDocument.StorageLocation,
     Material,
     Batch,
     InventorySpecialStockType,
     InventoryStockType,
     StockOwner,
     CompanyCode,
     InventorySpecialStockValnType,
     @Semantics.currencyCode: true
     CompanyCodeCurrency,
     @Semantics.unitOfMeasure: true
     MaterialBaseUnit,
     IsReversalMovementType,
     // Stock Transfers
     IssuingOrReceivingPlant,
     IssuingOrReceivingStorageLoc,
     IssgOrRcvgMaterial,
     IssqOrRcvqBatch,
     IssgOrRcvgSpclStockInd,
     IssuingOrReceivingStockType,
     // Cancellation information
     GoodsMovementIsCancelled,
     // Periods & Times
     @Semantics.businessDate.at: true
     DocumentDate,
     @Semantics.businessDate.createdAt: true
     PostingDate,
     @Semantics.fiscal.yearVariant: true
     FiscalYearVariant,
     FiscalYear,
     @Semantics.fiscal.yearPeriod: true
     FiscalYearPeriod,
     YearDay,
     @Semantics.calendar.yearWeek: true
     YearWeek,
     @Semantics.calendar.yearMonth: true
     YearMonth,
     @Semantics.calendar.yearQuarter: true
     YearOuarter.
     @Semantics.calendar.quarter: true
     CalendarOuarter,
     @Semantics.calendar.month: true
     CalendarMonth,
     @Semantics.calendar.week: true
     CalendarWeek,
     @Semantics.calendar.dayOfYear: true
     CalendarDay,
     WeekDay,
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// Reference Documents
SalesOrder.
SalesOrderItem,
SalesOrderScheduleLine,
PurchaseOrder,
PurchaseOrderItem,
DeliveryDocument,
DeliveryDocumentItem,
WBSElementInternalID,
ManufacturingOrder,
ManufacturingOrderItem,
// Other
GoodsMovementType,
GoodsMovementReasonCode,
InventoryValuationType,
Supplier,
Customer,
AccountAssignmentCategory,
CostObject,
CostCenter,
ControllingArea, // required to fulfill requirement to expose the full key (for cost center association)
ProfitabilitySegment,
ProfitCenter.
GLAccount,
FunctionalArea,
// Amounts
@Semantics.amount.currencyCode: 'CompanyCodeCurrency'
@DefaultAggregation: #NONE
case when GoodsMovementStkAmtInCCCrcy <> 0 then
cast(GoodsMovementStkAmtInCCCrcy as nsdm stk chg amount preserving type) end as GoodsMovementStkAmtInCCCrcy,
@Semantics.amount.currencyCode: 'CompanyCodeCurrency'
@DefaultAggregation: #NONE
case when GoodsMvtCnsmpnAmtInCCCrcy <> 0 then
cast(GoodsMvtCnsmpnAmtInCCCrcy as nsdm cons amount preserving type) end as GoodsMvtCnsmpnAmtInCCCrcy,
// Ouantities
@Semantics.guantity.unitOfMeasure: 'MaterialBaseUnit'
@DefaultAggregation: #NONE
case when MatlStkChangeQtyInBaseUnit <> 0 then
cast (MatlStkChangeQtyInBaseUnit as nsdm stk chg qty preserving type) end as MatlStkChangeQtyInBaseUnit,
@Semantics.quantity.unitOfMeasure: 'MaterialBaseUnit'
@DefaultAggregation: #NONE
case when MatlCnsmpnQtyInMatlBaseUnit <> 0 then
cast (MatlCnsmpnQtyInMatlBaseUnit as nsdm cons qty preserving type) end as MatlCnsmpnQtyInMatlBaseUnit,
// Classifications
@ObjectModel.foreignKey.association: ' StockChangeCategory'
StockChangeCategory,
IsEffectiveGoodsMovement,
IsConsumptionMovement,
IsCrossPlantTransfer,
IsStorageLocChangeByTransf,
IsMaterialChangeByTransf,
IsBatchChangeByTransf,
IsSpclStkTypeChangeByTransf,
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IsStockTypeChangeByTransf,
      // Derived Count Key Figures
      cast ( 1 as nsdm number of qds mvt) as NumberOfGoodsMovements,
      cast ( case when StockChangeCategory = 'GI' then 1
      end as nsdm number of gi mvt ) as NumberOfGoodsIssues,
      cast ( case when StockChangeCategory = 'GR' then 1
           else 0
      end as nsdm number of gr mvt ) as NumberOfGoodsReceipts,
      cast ( case when IsReversalMovementType = 'X' then 1
           else 0
      end as nsdm number of rev mvt ) as NumberOfReversalMovements,
      // Derived Quantity Key Figures
      @Semantics.quantity.unitOfMeasure: 'MaterialBaseUnit'
      @DefaultAggregation: #NONE
      cast ( case when IsEffectiveGoodsMovement = 'X' and IsConsumptionMovement = 'X' then MatlCnsmpnQtyInMatlBaseUnit
      end as nsdm effctv cons qty preserving type) as EffectiveCnsmpnQtyInBaseUnit,
      @Semantics.guantitv.unitOfMeasure: 'MaterialBaseUnit'
      @DefaultAggregation: #NONE
      cast ( case when IsEffectiveGoodsMovement = 'X' and StockChangeCategory = 'GI' then
        case when MatlStkChangeQtyInBaseUnit < 0 then MatlStkChangeQtyInBaseUnit * -1 else MatlStkChangeQtyInBaseUnit end
      end as nsdm effctv qi qty preserving type) as EffctvGdsIssueOtyInBaseUnit,
      @Semantics.quantity.unitOfMeasure: 'MaterialBaseUnit'
      @DefaultAggregation: #NONE
      cast ( case when StockChangeCategory = 'GI' then MatlStkChangeQtyInBaseUnit * -1
        -- case when MatlStkChangeQtyInBaseUnit < 0 then MatlStkChangeQtyInBaseUnit * -1 else MatlStkChangeQtyInBaseUnit end
      end as nsdm qi qty preserving type) as GoodsIssueQtyInBaseUnit,
      @Semantics.quantity.unitOfMeasure: 'MaterialBaseUnit'
      @DefaultAggregation: #NONE
      cast ( case when IsEffectiveGoodsMovement = 'X' and StockChangeCategory = 'GR' then
        case when MatlStkChangeQtyInBaseUnit < 0 then MatlStkChangeQtyInBaseUnit * -1 else MatlStkChangeQtyInBaseUnit end
      end as nsdm effctv qr qty preserving type) as EffctvGdsReceiptQtyInBaseUnit,
      @Semantics.quantity.unitOfMeasure: 'MaterialBaseUnit'
      @DefaultAggregation: #NONE
      cast ( case when StockChangeCategory = 'GR' then MatlStkChangeQtyInBaseUnit
        -- case when MatlStkChangeQtyInBaseUnit < 0 then MatlStkChangeQtyInBaseUnit * -1 else MatlStkChangeQtyInBaseUnit end
      end as nsdm gr qty preserving type) as GoodsReceiptQtyInBaseUnit,
      @Semantics.quantity.unitOfMeasure: 'MaterialBaseUnit'
      @DefaultAggregation: #NONE
      cast ( case when StockChangeCategory = 'GI'
           then MatlStkChangeQtyInBaseUnit * -1 -- case when MatlStkChangeQtyInBaseUnit < 0 then MatlStkChangeQtyInBaseUnit * -1 else
MatlStkChangeQtyInBaseUnit end
           else case when StockChangeCategory = 'GR'
           then MatlStkChangeQtyInBaseUnit end --case when MatlStkChangeQtyInBaseUnit < 0 then MatlStkChangeQtyInBaseUnit * -1 else
MatlStkChangeOtyInBaseUnit end end
      end as nsdm qds mvt qty preserving type) as TotalGdsMvtQtyInBaseUnit,
      @Semantics.amount.currencyCode: 'CompanyCodeCurrency'
      @DefaultAggregation: #NONE
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cast( case when StockChangeCategory = 'GR' then GoodsMovementStkAmtInCCCrcy end
   as nsdm qr amount preserving type) as GoodsReceiptAmountInCoCodeCrcy,
 @Semantics.amount.currencyCode: 'CompanyCodeCurrency'
 @DefaultAggregation: #NONE
 cast( case when StockChangeCategory = 'GI' then GoodsMovementStkAmtInCCCrcy * -1 end
   as nsdm qi amount) as GoodsIssueAmountInCoCodeCrcy,
// Authorization relevant fields
AuthStorageLocation.IsStorLocAuthznCheckActive as IsStorLocAuthznCheckActive,
AuthStorageLocationTr.IsStorLocAuthznCheckActive as IsIssgOrRcvgStorLocAuthChkActv,
// Associations
I GoodsMovementDocument. Plant,
I GoodsMovementDocument. StorageLocation,
Material,
InventorySpecialStockType,
InventoryStockType,
BPStockOwner,
IssgOrRcvgMaterial,
IssuingOrReceivingPlant,
IssuingOrReceivingStorageLoc,
IssgOrRcvgSpclStockInd,
IssuingOrReceivingStockType,
CostCenter,
ControllingArea,
AccountAssignmentCategory,
ProfitCenter,
GLAccount,
FunctionalArea,
_GoodsMovementType,
GoodsMovementReasonCode,
InventoryValuationType,
CompanyCode,
SalesOrder.
SalesOrderItem,
SalesOrderScheduleLine,
PurchaseOrder,
PurchaseOrderItem,
DeliveryDocument,
DeliveryDocumentItem,
MfgOrder,
MfgOrderItem,
Supplier,
Customer,
SupplierCompanyByPlant,
CustomerCompanyByPlant,
Currency,
MaterialBaseUnit,
StockChangeCategory
```