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/* Freek Keijzer, myBrand, 28.08.2020
In selection screen a.o. entries for 'Start period' and 'End period'.
In initial view following key figures:
- Stock Quantity/Value at start of period
- Receipt/Issue as Quantity/Value within period
- Stock Quantity/Value at end of period
Drill-down can go down to most detailed level:
Material Document Item.
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Stock levels are determined from goods movements with
Posting Date <= key date.
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Key figures taken from cube-view:
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- Quantities:
    MatlStkChangeQtyInBaseUnit
    GoodsReceiptQtyInBaseUnit
    GoodsIssueQtyInBaseUnit
- Amounts using current price (custom enhancement):
    MatlStkChangeVal
    GoodsReceiptVal
    GoodsIssueVal
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Key figures defined in this query-view:
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- Quantities:
    MatlStkQtyStart
    MatlStgQtyEnd
    GoodsReceiptQtyStart
    GoodsIssueQtyStart
    GoodsReceiptQtyEnd
    GoodsIssueQtyEnd
    GoodsReceiptQtyInPer
    GoodsIssueQtyInPer
- Amounts using current price:
    MatlStkValStart
    MatlStkValEnd
    GoodsReceiptValStart
    GoodsIssueValStart
    GoodsReceiptValEnd
    GoodsIssueValEnd
    GoodsReceiptValInPer
    GoodsIssueValInPer
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Change-log:
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-----*/
@EndUserText.label: 'MM: Goods Movements & Stock, 1 period'
@AbapCatalog.sqlViewName: 'ZQMMINVGDSMV1P'
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@VDM.viewType: #CONSUMPTION
@Analytics.query: true
@Analytics.settings.maxProcessingEffort: #HIGH
@OData.publish: true
@AbapCatalog.compiler.compareFilter: true
@AbapCatalog.preserveKey: true
@AccessControl.authorizationCheck: #CHECK
```

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define view ZQ_MM_INV_GDSMV_1PER
with parameters
    @EndUserText.label: 'Start period'
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@AnalyticsDetails.query.variableSequence : 110
p_StartDate : abap.dats,
@EndUserText.label: 'End period'
@AnalyticsDetails.query.variableSequence : 120
p_EndDate : abap.dats
as select from ZC_MM_INV_GDSMV
{
//KEY FIGURES
/--Stock Quantity/Value at start of period
@EndUserText.label: 'Stock Qty start per.'
case
when PostingDate < :p_StartDate then MatlStkChangeQtyInBaseUnit
else 0
end as MatlStkQtyStart,          //Stock Quantity at start of period

@AnalyticsDetails.query.decimals: 0
@EndUserText.label: 'Stock Val.start per.'
case
when PostingDate < :p_StartDate then MatlStkChangeVal
else 0
end as MatlStkValStart,          //Stock Value at start of period

/--Quantity/Value Received/Issued within period
@DefaultAggregation: #FORMULA
@AnalyticsDetails.query.formula: '$projection.GoodsReceiptQtyEnd - $projection.GoodsReceiptQtyStart'
@EndUserText.label: 'Qty Rec.in per.'
0 as GoodsReceiptQtyInPer,          //Quantity Received within period

@DefaultAggregation: #FORMULA
@AnalyticsDetails.query.formula: '$projection.GoodsIssueQtyEnd - $projection.GoodsIssueQtyStart'
@EndUserText.label: 'Qty Iss.in per.'
0 as GoodsIssueQtyInPer,          //Quantity Issued within period

@AnalyticsDetails.query.decimals: 0
@DefaultAggregation: #FORMULA
@AnalyticsDetails.query.formula: '$projection.GoodsReceiptValEnd - $projection.GoodsReceiptValStart'
@EndUserText.label: 'Val.Rec.in per.'
0 as GoodsReceiptValInPer,          //Value Received within period

@AnalyticsDetails.query.decimals: 0
@DefaultAggregation: #FORMULA
@AnalyticsDetails.query.formula: '$projection.GoodsIssueValEnd - $projection.GoodsIssueValStart'
@EndUserText.label: 'Val.Iss.in per.'
0 as GoodsIssueValInPer,          //Value Issued within period

/--Stock Quantity/Value at end of period
@EndUserText.label: 'Stock Qty end per.'
case
when PostingDate <= :p_EndDate then MatlStkChangeQtyInBaseUnit
else 0
end as MatlStgQtyEnd,          //Stock Quantity at end of period

@AnalyticsDetails.query.decimals: 0
@EndUserText.label: 'Stock Val.end per.'
case
when PostingDate <= :p_EndDate then MatlStkChangeVal
else 0
end as MatlStkValEnd,          //Stock Value at end of period

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/--INTERMEDIATE RESULTS
/--Quantity/Value Received/Issued at start of period
@AnalyticsDetails.query.hidden: true
@EndUserText.label: 'Qty Rec.start per.'
case
  when PostingDate < :p_StartDate then GoodsReceiptQtyInBaseUnit
  else 0
end as GoodsReceiptQtyStart,           //Quantity Received at start of period

@AnalyticsDetails.query.hidden: true
@EndUserText.label: 'Qty Iss.start per.'
case
  when PostingDate < :p_StartDate then GoodsIssueQtyInBaseUnit
  else 0
end as GoodsIssueQtyStart,           //Quantity Issued at start of period

@AnalyticsDetails.query.decimals: 0
@AnalyticsDetails.query.hidden: true
@EndUserText.label: 'Val.Rec.start per.'
case
  when PostingDate < :p_StartDate then GoodsReceiptVal
  else 0
end as GoodsReceiptValStart,         //Value Received at start of period

@AnalyticsDetails.query.decimals: 0
@AnalyticsDetails.query.hidden: true
@EndUserText.label: 'Val.Iss.start per.'
case
  when PostingDate < :p_StartDate then GoodsIssueVal
  else 0
end as GoodsIssueValStart,         //Value Issued at start of period

/--Quantity/Value Received/Issued at end of period
@AnalyticsDetails.query.hidden: true
@EndUserText.label: 'Qty Rec.end per.'
case
  when PostingDate <= :p_EndDate then GoodsReceiptQtyInBaseUnit
  else 0
end as GoodsReceiptQtyEnd,           //Quantity Received at end of period

@AnalyticsDetails.query.hidden: true
@EndUserText.label: 'Qty Iss.end per.'
case
  when PostingDate <= :p_EndDate then GoodsIssueQtyInBaseUnit
  else 0
end as GoodsIssueQtyEnd,           //Quantity Issued at end of period

@AnalyticsDetails.query.decimals: 0
@AnalyticsDetails.query.hidden: true
@EndUserText.label: 'Val.Rec.end per.'
case
  when PostingDate <= :p_EndDate then GoodsReceiptVal
  else 0
end as GoodsReceiptValEnd,         //Value Received at end of period

@AnalyticsDetails.query.decimals: 0
@AnalyticsDetails.query.hidden: true
@EndUserText.label: 'Val.Iss.end per.'
case

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        when PostingDate <= :p_EndDate then GoodsIssueVal
        else 0
    end as GoodsIssueValEnd,          //Value Issued at end of period

//CHARACTERISTICS IN ROWS
    @Consumption.filter: {selectionType: #SINGLE, multipleSelections: true, mandatory: false}
    @AnalyticsDetails.query.variableSequence : 10
    @AnalyticsDetails.query.axis: #ROWS
    Material,                        //Material Number (matdoc.matnr)
    @Consumption.filter: {selectionType: #SINGLE, multipleSelections: true, mandatory: false}
    @AnalyticsDetails.query.variableSequence : 20
    @AnalyticsDetails.query.axis: #ROWS
    Plant,                          //Plant (matdoc.werks)

//FREE CHARACTERISTICS
    @Consumption.filter: {selectionType: #SINGLE, multipleSelections: true, mandatory: false}
    @AnalyticsDetails.query.variableSequence : 30
    StorageLocation,                //Storage location (matdoc.lgort)
    @Consumption.filter: {selectionType: #SINGLE, multipleSelections: true, mandatory: false}
    @AnalyticsDetails.query.variableSequence : 40
    MaterialGroup,                  //Material Group (mara.matkl)
    @Consumption.filter: {selectionType: #SINGLE, multipleSelections: true, mandatory: false}
    @AnalyticsDetails.query.variableSequence : 50
    MaterialType,                   //Material Type (mara.mtart)
    @Consumption.filter: {selectionType: #SINGLE, multipleSelections: true, mandatory: false}
    @AnalyticsDetails.query.variableSequence : 70
    InventorySpecialStockType,      //Special Stock Indicator (matdoc.sobkz)
    @Consumption.filter: {selectionType: #SINGLE, multipleSelections: true, mandatory: false}
    @AnalyticsDetails.query.variableSequence : 80
    InventoryStockType,             //Stock Type of Goods Movement (Stock Identifier) (matdoc.lbbbsa_sid)
    Batch,                          //Batch Number (matdoc.charg)
    StockOwner,                     //Additional Supplier for Special Stock (matdoc.disub_owner)
    CompanyCode,                    //Company Code (matdoc.bukrs)
    InventorySpecialStockValnType,   //Valuation of Special Stock (matdoc.kzbsws)
    CompanyCodeCurrency,             //Currency Key (matdoc.waers)
    MaterialBaseUnit,               //Base Unit of Measure (matdoc.meins)
    IsReversalMovementType,         //Reversal movement type (matdoc.reversal_movement)
    GoodsMovementType,              //Movement type (inventory management) (matdoc.bwart)
    GoodsMovementReasonCode,        //Reason for Movement (matdoc.grund)
    InventoryValuationType,          //Valuation Type (matdoc.bwtar)
    PostingDate,                    //Posting Date in the Document (matdoc.budat)

    MaterialDocumentYear,           //Material Document Year (matdoc.mjahr)
    MaterialDocument,               //Number of Material Document (matdoc.mblnr)
    MaterialDocumentItem,           //Item in Material Document (matdoc.zeile)

//-----
//-----From here on standard SAP code
//-----

// Stock Transfers
// IssuingOrReceivingPlant and IssuingOrReceivingStorageLoc are not part because of access restrictions
// the analyzing user would require access permissions for both plants to see the one record
IssgOrRcvgMaterial,
IssgOrRcvgBatch,
IssgOrRcvgSpclStockInd,
IssuingOrReceivingStockType,

// Cancellation information

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GoodsMovementIsCancelled,

// Periods & Times
DocumentDate,
/* @Consumption: {
  filter:      {selectionType:      #INTERVAL},
  derivation: {
    lookupEntity: 'C_SglGregorianCalDateFunction',
    resultElement: 'DateFunctionStartDate', binding: [
      { targetParameter: 'P_DateFunction', type: #CONSTANT, value : 'PREVIOUSYEARTODATE' },
      { targetParameter : 'P_Language' , type : #SYSTEM_FIELD, value : '#SYSTEM_LANGUAGE'  } ],
    resultElementHigh: 'DateFunctionEndDate' }
} */
FiscalYearVariant,
FiscalYear,
FiscalYearPeriod,
YearDay,
YearWeek,
YearMonth,
YearQuarter,
CalendarQuarter,
CalendarMonth,
CalendarWeek,
CalendarDay,
WeekDay,

// Reference Documents - must not refer to transaction dimension views (target dimension DLC would not be considered!)
SalesOrder,
SalesOrderItem,
SalesOrderScheduleLine,
PurchaseOrder,
PurchaseOrderItem,
DeliveryDocument,
DeliveryDocumentItem,
WBSElementInternalID,
  ManufacturingOrder,
  ManufacturingOrderItem,

// Master Data fields out of the Reference Documents
PurchasingGroup,
PurchasingOrganization,
SalesOrganization,
DistributionChannel,
OrganizationDivision,
SalesGroup,

// Other
Supplier,
Customer,

//Accounting data
AccountAssignmentCategory,
CostObject,
CostCenter,
ControllingArea,
ProfitabilitySegment,
ProfitCenter,
GLAccount,
FunctionalArea,

```

```
// Classifications
StockChangeCategory,
IsConsumptionMovement,
IsCrossPlantTransfer,
IsStorageLocChangeByTransf,
IsMaterialChangeByTransf,
IsBatchChangeByTransf,
IsSpclStkTypeChangeByTransf,
IsStockTypeChangeByTransf

} where IsEffectiveGoodsMovement = 'X'
```