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/* Freek Keijzer, myBrand, 17.01.2021
Cube-view for Return List.
Business requirement: user-story 34567
Main source tables:
RESB - "Reservation/dependent requirements"
LIPS - "SD document: Delivery: Item data"
T320 - "Assignment IM Storage Location to WM Warehouse Number"

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Layered structure of CDS-views:

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ZC_MM_RetList                - Cube-view
|- ZP_MM_RetListUn           - Union key figures Reservations + Deliveries
|  |- ZP_MM_RetListRESB      - Transformed view key figures Reservations
|  |  |- ZB_MM_RetListRESB   - Basic view key figures Reservations
|  |  |  |- resb             - Source table Reservations
|  |  |  |- lips            - Source table Deliveries
|  |  |  |- ZP_MM_LIPSResAg  - Preparation for aggregation on Reservation Item
|  |  |  |- ZB_MM_RetListRESB
|  |  |  |  |- ...
|  |  |  |- t320             - Table to determine Warehouse EWM/IM
|  |  |- ZB_MM_RetListLIPS    - Basic view key figures Deliveries
|  |  |  |- lips
|- I_Material                - SAP std view attributes Material
|  |- mara, ...
|- I_Plant                   - SAP std view attributes Plant
|  |- t001w, ...
|- I_StorageLocation         - SAP std view attributes Storage Location
|  |- t001l, ...
|- I_MaintenanceOrder        - SAP std view attributes Maintenance Order
|  |- afih, ...
|- I_Movement_TypeText       - SAP std view texts Movement Type
|  |- t156ht

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Change-log:

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@EndUserText.label: 'MM: Return List (cube)'
@AbapCatalog.sqlViewName: 'ZCMMRETLIST'

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@VDM.viewType: #COMPOSITE
@Analytics.dataCategory: #CUBE
@AccessControl.authorizationCheck: #CHECK
@AbapCatalog.compiler.compareFilter: true
@DataAging.noAgingRestriction: true
@Search.searchable: false

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define view ZC_MM_RetList as select from ZP_MM_RetListUn as _Ret
  association[0..1] to I_Material          as _Material          on $projection.Material      = _Material.Material
  association[0..1] to I_Plant             as _Plant             on $projection.Plant        = _Plant.Plant
  association[0..1] to I_StorageLocation   as _StorageLocation   on $projection.Plant        = _StorageLocation.Plant and
                                                                    $projection.StorageLocation = _StorageLocation.StorageLocation
  association[0..1] to I_MaintenanceOrder  as _MaintenanceOrder on $projection.MaintenanceOrder = _MaintenanceOrder.MaintenanceOrder
  association[0..*] to I_Movement_TypeText as _MovementTypeText on $projection.MovementType   = _MovementTypeText.MovementType

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/--Key fields, currencies, units
@Semantics.quantity.unitOfMeasure: 'meins'
@DefaultAggregation: #SUM
@EndUserText.label: 'Quantity'
_Ret.bdmng, // "Quantity" = resb.bdmng or lips.lgmng

@Semantics.quantity.unitOfMeasure: 'meins'
@DefaultAggregation: #SUM
@EndUserText.label: 'Returned'
_Ret.enmng, // "Returned" = resb.enmng or lips.lgmng

@Semantics.quantity.unitOfMeasure: 'meins'
@DefaultAggregation: #SUM
@EndUserText.label: 'Received'
_Ret.QuantRec, // "Received" = resb.enmng or lips.lgmng with conditions

@EndUserText.label: 'Unit'
_Ret.meins, // Base Unit of Measure (resb/lips.meins)

@DefaultAggregation: #SUM
@EndUserText.label: 'Numb.of Reser.'
_Ret.CounterRes, // Number of Reservation Items

@DefaultAggregation: #SUM
@EndUserText.label: 'Numb.of Deliv.'
_Ret.CounterDel, // Number of Delivery Items

/--Characteristics
@EndUserText.label: 'Source (RESB, LIPS)'
_Ret.Source, // Source = 'RESB', 'LIPS'
@EndUserText.label: 'Res.nr'
_Ret.rsnum, // Reservation Number (resb/lips.rsnum)
@EndUserText.label: 'Res.pos'
_Ret.rspos, // Reservation Item (resb/lips.rspos)
@ObjectModel.foreignKey.association: '_Plant'
_Ret.werks as Plant, // Plant (resb/lips.werks)
@ObjectModel.foreignKey.association: '_StorageLocation'
_Ret.lgort as StorageLocation, // Storage Location (resb/lips.lgort)
@ObjectModel.foreignKey.association: '_MaintenanceOrder'
_Ret.aufnr as MaintenanceOrder, // Order Number (resb/lips.aufnr)
_Ret.xloek, // Item is deleted (resb.xloek)
@ObjectModel.text.association: '_MovementTypeText'
_Ret.bwart as MovementType, // Movement type inventory management (resb/lips.bwart)
_Ret.kzear, // Final issue for this reservation (resb.kzear)
@ObjectModel.foreignKey.association: '_Material'
_Ret.matnr as Material, // Material Number (resb/lips.matnr)
@EndUserText.label: 'Del.nr'
_Ret.vbeln as EWMInboundDelivery, // Delivery (lips.vbeln)
@EndUserText.label: 'Del.pos'
_Ret.vbelp, // Delivery Item (lips.posnr)
_Ret.bwtar, // Valuation Type (lips.bwtar)

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    _Ret.StorLoc_EWM_IM,           //"Warehouse EWM/IM?" = 'EWM' or 'IM'
    _Ret.StorLocCompl,           //"Warehouse completed?", see logic in union-view

/--Characteristics via associations
    _Material.MaterialGroup,      //Material Group (mara.matkl)

/--Associations to be passed on to a higher level
    _Plant,
    _StorageLocation,
    _Material,
    _MaintenanceOrder,
    _MovementTypeText
}
```