

/* 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"

Layered structure of CDS-views:

```
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
|- ZP_LOG_AUFNR_UserStat - User Status of Maintenance Order
|  |- ...
```

Change-log:

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

@AbapCatalog.sqlViewName: 'ZCMMRETLIST'

@VDM.viewType: #COMPOSITE

@Analytics.dataCategory: #CUBE

@AccessControl.authorizationCheck: #CHECK

@AbapCatalog.compiler.compareFilter: true

@DataAging.noAgingRestriction: true

@Search.searchable: false

```
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
  association[0..1] to ZP_LOG_AUFNR_USERSTAT as _MaintOrdUsStat on $projection.MaintenanceOrder = _MaintOrdUsStat.aufnr
{
  //--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)
_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)
@EndUserText.label: 'Maint.Ord.User Stat.'
_MaintOrdUsStat.AufnrUserStat,               /*User Status of Maintenance Order

/--Associations to be passed on to a higher level
_Plant,
_StorageLocation,

```

```
    _Material,  
    _MaintenanceOrder,  
    _MovementTypeText  
}
```