

## Code Snippet after VDM Demo2

### PO header Consumption View

```
@AbapCatalog.sqlViewName: 'ZCPURHDR1'
@AbapCatalog.compiler.compareFilter: true
@AbapCatalog.preserveKey: true
@AccessControl.authorizationCheck: #CHECK
@EndUserText.label: 'Consumption view for Purchase Order header'
define view ZC_PurOrdHdr
  as select from ZI_PurOrderHdrEnhanced
  association [0..*] to ZC_PurOrdItem as _POItem on
$projection.PurchaseOrder = _POItem.PurchaseOrder
  association [1..1] to zi_pocust1 as _POSupp on
$projection.Supplier = _POSupp.Supplier
{
  key PurchaseOrder,
    PurOrderTypeDesc,
    PurOrganization,
    PurGroup,
    Supplier,
    SupplierName,
    DocCurrency,
    CreationDate,
    TotalValue,
    TotalUSDValue,
    /* Associations */
    @ObjectModel.association.type: [#TO_COMPOSITION_CHILD]
    _POItem
}
```

### PO Item Consumption View

```
@AbapCatalog.sqlViewName: 'ZCPURORDI1'
@AbapCatalog.compiler.compareFilter: true
@AbapCatalog.preserveKey: true
@AccessControl.authorizationCheck: #CHECK
@EndUserText.label: 'Consumption view for Purchase Order Item'
define view ZC_PurOrdItem
  as select from ZI_PurOrderItemEnh
  association [1..1] to ZC_PurOrdHdr as _POHdr on
$projection.PurchaseOrder = _POHdr.PurchaseOrder
  association [1..1] to ZI_material1 as _Material on
$projection.Material = _Material.Material
{
  key PurchaseOrder,
  key PurchaseOrderItem,
```

```

    Material,
    MaterialType,
    POItemText,
    MaterialGroup,
    Plant,
    StorageLocation,
    StorageDetails,
    OrderQuantity,
    OrderUnit,
    NetPrice,
    TaxAmount,
    NetOrderValue,
    DiscountedNetOrder,
    DiscountedRoundedNetOrd,
    /* Associations */
    @ObjectModel.association.type: [#TO_COMPOSITION_PARENT,
#TO_COMPOSITION_ROOT]
    _POHdr
}

```

#### PO Header Composite/ Interface View

```

@AbapCatalog.sqlViewName: 'ZIPURHDRE'
@AbapCatalog.compiler.compareFilter: true
@AbapCatalog.preserveKey: true
@AccessControl.authorizationCheck: #CHECK
@endUserText.label: 'Purchase Order hdr Composite'
@VDM.viewType: #COMPOSITE
define view ZI_PurOrderHdrEnhanced as select from ZI_PurOrderHdr
association [0..*] to ZI_PurOrderItemEnh as _POItem on
$projection.PurchaseOrder = _POItem.PurchaseOrder
association [1..1] to zi_pocust1 as POSupp on
$projection.Supplier = _POSupp.Supplier
{
    key PurchaseOrder,
    case (PurOrderType)
        when 'RQ' then 'External Quotation'
        when 'UB' then 'Stock transport order'
        else 'Other order'
        end as PurOrderTypeDesc,
    PurOrganization,
    PurGroup,
    Supplier,
    SupplierName,
    DocCurrency,
    CreationDate,
    TotalValue,
    currency conversion( amount => TotalValue,

```

```

source_currency => DocCurrency,
target_currency => cast ('USD' as
waers),

exchange_rate_date => CreationDate
as TotalUSDValue,

)
/* Associations */
@ObjectModel.association.type: [#TO_COMPOSITION_CHILD]
_POItem
//_POSupp
}

```

#### PO Item Composite / Interface View

```

@AbapCatalog.sqlViewName: 'ZIPURORDITME'
@AbapCatalog.compiler.compareFilter: true
@AbapCatalog.preserveKey: true
@AccessControl.authorizationCheck: #CHECK
@endUserText.label: 'Composite View Purord item'
@VDM.viewType: #COMPOSITE
define view ZI_PurOrderItemEnh as select from ZI_PurOrderItem
association [1..1] to ZI_PurOrderHdrEnhanced as _POHdr on
$projection.PurchaseOrder = _POHdr.PurchaseOrder
association [1..1] to ZI_material1 as Material on
$projection.Material = _Material.Material
{
  key PurchaseOrder,
  key PurchaseOrderItem,
  Material,
  MaterialType,
  POItemText,
  MaterialGroup,
  Plant,
  StorageLocation,
  StorageDetails,
  @Semantics.quantity.unitOfMeasure: 'OrderUnit'
  OrderQuantity,
  @Semantics.unitOfMeasure: true
  OrderUnit,
  NetPrice,
  TaxAmount,
  NetOrderValue,
  DiscountedNetOrder,
  DiscountedRoundedNetOrd,
  /* Associations */
  //_Material,
  @ObjectModel.association.type: [#TO_COMPOSITION_PARENT,
#TO_COMPOSITION_ROOT]
_POHdr

```

```
}
```

#### PO Header Basic View

```
@AbapCatalog.sqlViewName: 'ZIPURHDR1'
@AbapCatalog.compiler.compareFilter: true
@AbapCatalog.preserveKey: true
@AccessControl.authorizationCheck: #CHECK
@endUserText.label: 'Purchase Order Header'
@VDM.viewType: #BASIC
@OData.publish: true
@ClientHandling.type: #INHERITED
@ClientHandling.algorithm: #AUTOMATED
define view ZI_PurOrderHdr
  as select from ekko
  association [0..*] to ZI_PurOrderItem as _POItem on
$projection.PurchaseOrder = _POItem.PurchaseOrder
  association [1..1] to zi_pocust1 as _POSupp on
$projection.Supplier = _POSupp.Supplier
{
  key ebeln as PurchaseOrder,
    bsart as PurOrderType,
    ekorg as PurOrganization,
    ekgrp as PurGroup,
    lifnr as Supplier,
    _POSupp.SupplierName as SupplierName,
    waers as DocCurrency,
    aedat as CreationDate,
    rlwrt as TotalValue,
    @ObjectModel.association.type: [#TO_COMPOSITION_CHILD]
    _POItem,
    _POSupp
}
where
  ernam = $session.user
```

#### PO Item Basic View

```
@AbapCatalog.sqlViewName: 'ZIPURORDITEM'
@AbapCatalog.compiler.compareFilter: true
@AbapCatalog.preserveKey: true
@AccessControl.authorizationCheck: #CHECK
@endUserText.label: 'Purchase Order Item'
define view ZI_PurOrderItem
  as select from ekpo
```

```

    association [1..1] to ZI_PurOrderHdr as _POHdr    on
$projection.PurchaseOrder = _POHdr.PurchaseOrder
    association [1..1] to ZI_material1    as _Material on
$projection.Material = _Material.Material
{
    key ebeln                                as PurchaseOrder,
    key ebelp                                as
PurchaseOrderItem,
        matnr                                as Material,
        _Material.MaterialType               as MaterialType,
        txz01                                as POItemText,
        matkl                                as MaterialGroup,
        werks                                as Plant,
        lgort                                as
StorageLocation,
        concat_with_space(werks, lgort, 1)   as StorageDetails,
        @Semantics.quantity.unitOfMeasure: 'OrderUnit'
menge                                       as OrderQuantity,
        @Semantics.unitOfMeasure: true
meins                                       as OrderUnit,
        netpr                                as NetPrice,
        cast( netpr as abap.fltp(16) ) * 0.35 as TaxAmount,
        netwr                                as NetOrderValue,
        cast(netwr as abap.fltp(16)) * 0.75  as
DiscountedNetOrder,
        ceil(cast(netwr as abap.fltp(16)) * 0.75) as
DiscountedRoundedNetOrd,
        @ObjectModel.association.type: [#TO_COMPOSITION_PARENT,
#TO_COMPOSITION_ROOT]
        _POHdr,
        _Material
}

```

#### Customer CDS View

```

@AbapCatalog.sqlViewName: 'ZIPOCUST12'
@AbapCatalog.compiler.compareFilter: true
@AbapCatalog.preserveKey: true
@AccessControl.authorizationCheck: #CHECK
@EndUserText.label: 'Supplier'
define view zi_pocust1
as select from lfa1
{
    key lifnr as Supplier,
        land1 as Region,
        name1 as SupplierName
}

```

## Material CDS View

```
@AbapCatalog.sqlViewName: 'ZIMAT1'
@AbapCatalog.compiler.compareFilter: true
@AbapCatalog.preserveKey: true
@AccessControl.authorizationCheck: #CHECK
@EndUserText.label: 'Material'
define view ZI material1
  as select from mara
{
  key matnr as Material,
    mtart as MaterialType,
    meins as BaseUnit
}
```