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/* Freek Keijzer, myBrand, 09.03.2020
Data-integration view type union.
Source tables:
ACDOCA - "Universal Journal Entry Line Items"
ACDOCP - "Plan Data Line Items"
COOI - "Commitments Management: Line Items"
EKKN - "Account Assignment in Purchasing Document"
Transformations in this view:
* Mapping Quantity Actuals/Plan (acdoca.msl/acdocp.vmsl)
  and unit (acdoca.runit/acdocp.rvunit) to the same fields
* Creation Date determined via 3 different methods:
 1. Conversion of acdoca.timestamp
  2. First 8 characters of acdocp.regtsn
  3. Field value of cooi.bldat (Document Date)
* Mapping from Debit/Credit Indicators Plan (acdocp.co belkz)
  and Commitments (cooi.beknz) to Debit/Credit Indicator
  Actuals (acdoca.drcrk) values 'S(oll)' and 'H(aben)'.
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Change-log:
JIRA-1234, 17.05.2020, Danny Linders
UNION replaced by UNION ALL to solve performance issues.
-----*/
@EndUserText.label: 'FI: Data Act.+Plan+Commitm., union'
@AbapCatalog.sqlViewName: 'ZPFIACDCAPCOOIUN'
@AbapCatalog.compiler.compareFilter: true
@AbapCatalog.preserveKey: true
@AccessControl.authorizationCheck: #CHECK
define view ZP FI ACDOCAPCOOI UN as
//-----
select from ZB FIGL ACDOCA
    'ACDOCA' as Source,
                                              //Source = 'ACDOCA', 'ACDOCP' or 'COOI'
//--Fields from table Actuals ACDOCA
   rldnr.
                                              //Ledger in General Ledger Accounting (acdoca.rldnr)
    rbukrs,
                                              //Company Code (acdoca.rbukrs)
                                              //Fiscal Year (acdoca.gjahr)
   gjahr,
                                              //Accounting Document (acdoca.belnr)
   belnr,
   docln,
                                              //Accounting Document Item (acdoca.docln)
    rmvct,
                                              //Transaction type (acdoca.rmvct)
                                              //Reference procedure (acdoca.awtyp)
   awtyp,
                                              //Account Number (acdoca.racct)
    racct,
   rcntr,
                                              //Cost Center (acdoca.rcntr)
                                              //Profit Center (acdoca.prctr)
   prctr,
                                              //Business Area (acdoca.rbusa)
   rbusa.
   kokrs,
                                              //Controlling Area (acdoca.kokrs)
    rassc,
                                              //Company ID of trading partner (acdoca.rassc)
                                              //Amount in Global Currency (acdoca.ksl)
   ksl,
                                              //Global Currency (acdoca.rkcur)
   rkcur,
                                              //Quantity (acdoca.msl/acdocp.vmsl -> quant ap)
   msl as quant ap,
                                              //UoM for Quantity (acdoca.runit/acdocp.rvunit -> quant ap unit)
   runit as quant ap unit,
    drcrk,
                                              //Debit/Credit Indicator (acdoca.drcrk)
                                              //Posting period (acdoca.poper)
    poper,
                                              //Fiscal Year Variant (acdoca.periv)
    periv,
    fiscyearper,
                                              //Period/year (acdoca.fiscyearper)
```

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budat.
                                                 //Posting Date (acdoca.budat)
   bldat.
                                                 //Document Date (acdoca.bldat)
   blart.
                                                 //Document type (acdoca.blart)
   zuonr.
                                                 //Assignment number (acdoca.zuonr)
   bschl,
                                                 //Posting Key (acdoca.bschl)
   usnam,
                                                 //User Name (acdoca.usnam)
                                                 //UTC-timestamp (acdoca.timestamp)
   timestamp,
   ktopl,
                                                 //Chart of Accounts (acdoca.ktopl)
                                                 //Purchasing Document (acdoca.ebeln)
   ebeln,
                                                 //Purchasing Document Item (acdoca.ebelp)
   ebelp,
   satxt.
                                                 //Item Text (acdoca.sgtxt)
                                                 //Material (acdoca.matnr)
   matnr,
   werks.
                                                 //Plant (acdoca.werks)
   lifnr.
                                                 //Vendor (acdoca.lifnr)
                                                 //Customer (acdoca.kunnr)
   kunnr.
   koart.
                                                 //Account Type (acdoca.koart)
                                                 //Tax on sales/purchases code (acdoca.mwskz)
   mwskz,
   hbkid,
                                                 //Short key for a house bank (acdoca.hbkid)
                                                 //ID for account details (acdoca.hktid)
   hktid,
   , wvqox
                                                 //Indicator: Open Item Management? (acdoca.xopvw)
                                                 //Clearing Date (acdoca.augd)
   augdt,
                                                 //Document Number of the Clearing Document (acdoca.augbl)
   augbl,
   auggj,
                                                 //Fiscal Year of Clearing Document (acdoca.auggj)
                                                 //Main Asset Number (acdoca.anln1)
   anln1.
   anln2.
                                                 //Asset Subnumber (acdoca.anln2)
                                                 //Group Asset (acdoca.anlgr)
   anlar.
   anlgr2.
                                                 //Subnumber of Group Asset (acdoca.anlgr2)
                                                 //Asset Class (acdoca.anlkl)
   anlkl,
                                                 //Valuation Type (acdoca.bwtar)
   bwtar.
   bwkev,
                                                 //Valuation area (acdoca.bwkey)
   obinr,
                                                 //Object number (acdoca.objnr)
   accas,
                                                 //Account Assignment (acdoca.accas)
                                                 //Object Type (acdoca.accasty)
   accasty,
   lstar.
                                                 //Activity Type (acdoca.lstar)
   aufnr.
                                                 //Order Number (acdoca.aufnr)
                                                 //Order category (acdoca.autvp)
   autyp,
                                                 //WBS-element, NUMC-8 (acdoca.ps psp pnr)
   ps psp pnr as pspnr,
   nplnr,
                                                 //Network Number (acdoca.nplnr)
                                                 //Network activity (acdoca.nplnr vorgn)
   nplnr vorgn,
                                                 //Partner Account Assignment (acdoca.paccas)
   paccas,
                                                 //Partner Object Type (acdoca.paccasty)
   paccasty,
                                                 //Product Sold Group (acdoca.matkl)
   matkl,
//--Fields only in table Plan ACDOCP
   cast('0000000000000000000000' as rspm request tsn) as reqtsn,
   cast('000000' as rsdatapid) as datapakid,
   0 as record.
   cast('
                    ' as fcom category) as category,
//--Fields from view Commitments ZB PUR COOI
    cast(0 as menge1) as gesmng,
   cast(' ' as co meinh) as meinh cooi,
   cast(0 as megxxx) as megbtr,
   cast(0 as wertk1) as orgwtk,
   cast(0 as wkgxxx) as wkgbtr,
    cast(' ' as eloek) as loekz cooi,
   cast(' 'as waers) as tka01 cur,
//--Creation Date determined via different methods
```

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tstmp to dats(timestamp,abap system timezone( $session.client,'NULL'), $session.client,'NULL') as zcpudt,
                                                //Creation Date based on acdoca.timestamp
//--Generic counter
    1 as Counter
                                                //Generic counter for records in table/view
·
//-----
union all
select from ZB FIGL ACDOCP
    'ACDOCP' as Source,
                                                //Source = 'ACDOCA', 'ACDOCP' or 'COOI'
//--Fields from table Actuals ACDOCA
                                                //Ledger in General Ledger Accounting (acdocp.rldnr)
   rldnr.
    rbukrs.
                                                //Company Code (acdocp.rbukrs)
    ryear as gjahr,
                                                //General Ledger Fiscal Year (acdocp.ryear)
    '' as belnr,
    '' as docln,
    rmvct,
                                                //Transaction type (acdocp.rmvct)
                                                //Reference procedure (acdocp.awtyp)
    awtyp,
                                                //Account Number (acdocp.racct)
    racct,
                                                //Cost Center (acdocp.rcntr)
   rcntr,
                                                //Profit Center (acdocp.prctr)
   prctr.
    rbusa,
                                                //Business Area (acdocp.rbusa)
                                                //Controlling Area (acdocp.kokrs)
    kokrs.
    rassc.
                                                //Company ID of trading partner (acdocp.rassc)
                                                //Amount in Global Currency (acdocp.ksl)
    ksl,
                                                //Global Currency (acdocp.rkcur)
    rkcur,
    vmsl as quant ap,
                                                //Quantity (acdoca.msl/acdocp.vmsl -> quant ap)
                                                //UoM of Quantity (acdoca.runit/acdocp.rvunit -> quant ap unit)
    rvunit as quant ap unit,
    case co belkz
                                                //CO Debit/Credit Indicator (acdocp.co belkz)
     when 'D' then 'S'
     else 'H'
    end as drcrk,
                                                //Debit/Credit Indicator (acdocp.co belkz -> drcrk)
                                                //Posting period (acdocp.poper)
   poper,
    periv,
                                                //Fiscal Year Variant (acdocp.periv)
    fiscyearper,
                                                //Period/year (acdocp.fiscyearper)
   budat.
                                                //Posting Date (acdocp.budat)
    '000000000' as bldat,
    '' as blart,
    '' as zuonr,
    '' as bschl,
    usnam,
                                                //User Name (acdocp.usnam)
    0.0 as timestamp,
    ktopl,
                                                //Chart of Accounts (acdocp.ktopl)
    '' as ebeln,
    '00000' as ebelp,
    satxt.
                                                //Item Text (acdocp.sgtxt)
   matnr,
                                                //Material (acdocp.matnr)
    werks,
                                                //Plant (acdocp.werks)
    '' as lifnr,
                                                //Customer (acdocp.kunnr)
    kunnr,
    '' as koart,
    '' as mwskz,
    '' as hbkid,
    '' as hktid,
    '' as xopvw,
    '000000000' as augdt,
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'' as augbl,
   '0000' as auggj,
   '' as anln1,
   '' as anln2.
   '' as anlgr,
   '' as anlgr2,
   '' as anlkl,
   '' as bwtar,
   '' as bwkey,
   '' as objnr,
   '' as accas.
   accasty,
                                            //Object Type (acdocp.accasty)
   lstar.
                                            //Activity Type (acdocp.lstar)
                                            //Order Number (acdocp.aufnr)
   aufnr.
   '00' as autyp,
   ps psp pnr as pspnr,
                                            //WBS-element, NUMC-8 (acdocp.ps psp pnr)
   '' as nplnr,
   '' as nplnr vorgn,
   '' as paccas,
   paccasty,
                                            //Partner Object Type (acdocp.paccasty)
                                            //Product Sold Group (acdocp.matkl)
   matkl,
//--Fields only in table Plan ACDOCP
                                            //Request Transaction Sequence Number (acdocp.regtsn)
   reatsn.
   datapakid,
                                            //Data packet number (acdocp.datapakid)
   record.
                                            //Data record number (acdocp.record)
   category,
                                            //Category (acdocp.category)
//--Fields from view Commitments ZB PUR COOI
   0.0 as gesmng,
   ' 'as meinh cooi,
   0.0 as megbtr,
   0.0 as orgwtk,
   0.0 as wkgbtr,
   ' ' as loekz cooi,
   ' 'as tka01 cur,
//--Creation Date determined via different methods
   left(regtsn,8) as zcpudt, //Aanmaakdatum obv acdocp.regtsn
//--Generic counter
   1 as Counter
                                            //Generic counter for records in table/view
·
//-----
//-----
select from ZB PUR COOI
   'COOI' as Source.
                                          //Source = 'ACDOCA', 'ACDOCP' or 'COOI'
//--Fields from table Actuals ACDOCA
   'OT' as rldnr.
                                          //Ledger in General Ledger Accounting
   bukrs as rbukrs,
                                          //Company Code (cooi.bukrs)
                                           //Fiscal Year (cooi.gjahr)
   gjahr,
   '' as belnr,
   '' as docln,
   '' as rmvct,
   rftyp as awtyp,
                                            //Reference procedure (cooi.rftyp)
   sakto as racct,
                                            //G/L Account Number (ekkn.sakto)
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kostl as rcntr,
                                             //Cost Center (ekkn.kostl)
prctr,
                                             //Profit Center (ekkn.prctr)
'' as rbusa,
kokrs.
                                             //Controlling Area (cooi.kokrs)
vbund as rassc,
                                             //Company ID of trading partner (cooi.vbund)
0.0 as ksl,
' as rkcur,
0.0 as quant ap,
' 'as quant ap unit,
case beknz
                                             //Debit/credit indicator (cooi.beknz)
  when 'D' then 'S'
  else 'H'
end as drcrk.
                                             //Debit/Credit Indicator (cooi.beknz -> drcrk)
perio as poper,
                                             //Period (cooi.perio)
                                             //Fiscal Year Variant
'K4' as periv,
concat (gjahr, perio) as fiscyearper,
                                             //Period/year
budat,
                                             //Expected Debit Date (cooi.budat)
                                             //Document Date (cooi.bldat)
bldat,
'' as blart,
'' as zuonr,
'' as bschl,
'' as usnam,
timestmp as timestamp,
                                             //Timestamp (cooi.timestmp)
'NS00' as ktopl.
                                             //Chart of Accounts
refbn as ebeln,
                                             //Reference Document (cooi.refbn = ebeln)
rfpos as ebelp,
                                             //Reference Document Item (cooi.rfpos = ebelp)
sqtxt,
                                             //Segment text (cooi.sgtxt)
                                             //Material (cooi.matnr)
matnr,
'' as werks,
lifnr,
                                             //Account Number of Vendor or Creditor (cooi.lifnr)
'' as kunnr,
'' as koart,
'' as mwskz,
'' as hbkid.
'' as hktid,
'' as xopvw,
'000000000' as augdt,
'' as augbl,
'0000' as auggj,
'' as anln1,
'' as anln2,
'' as anlgr,
'' as anlgr2,
'' as anlkl,
'' as bwtar,
'' as bwkey,
objnr,
                                             //Object number (cooi.objnr)
'' as accas,
'' as accasty,
'' as lstar,
aufnr,
                                             //Order number (ekkn.aufnr)
'00' as autyp,
                                             //WBS-element, NUMC-8 (ekkn.ps psp pnr)
pspnr,
'' as nplnr,
'' as nplnr vorgn,
'' as paccas,
'' as paccasty,
                                             //Material Group (cooi.matkl)
matkl,
```

```
//--Fields only in table Plan ACDOCP
    '0000000000000000000000000' as reqtsn,
    '0000000' as datapakid,
    0 as record,
               ' as category,
//--Fields from view Commitments ZB PUR COOI
                                                 //Planned Quantity (cooi.gesmng, unit: cooi.meinh)
    meinh as meinh cooi,
                                                 //Unit of Measure (cooi.meinh)
                                                 //Total Quantity (cooi.megbtr, unit: cooi.meinh)
   megbtr,
    orgwtk,
                                                 //Planned Value (cooi.orgwtk, currency: tka01.waers)
    wkabtr,
                                                 //Total Value (cooi.wkgbtr, currency: tka01.waers)
    loekz as loekz cooi,
                                                 //Deletion indicator in purchasing document (cooi.loekz)
    waers as tka01 cur,
                                                 //Currency Key (tka01.waers)
//--Creation Date determined via different methods
    bldat as zcpudt,
                                                 //Document Date (cooi.bldat)
//--Generic counter
    1 as Counter
                                                 //Generic counter for records in table/view
```