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/* Freek Keijzer, myBrand, 20.03.2020
Cube-view for financial analysis Actuals + Plan + Commitments.
Source tables:
ACDOCA - "Universal Journal Entry Line Items"
ACDOCP - "Plan Data Line Items"
COOI - "Commitments Management: Line Items"
EKKN - "Account Assignment in Purchasing Document"
Enrichments:
- Attributes of G/L Account as separate dimension
- Attributes of Purchasing Document as separate dimension
- Conversion of WBSElementInternalID to CHAR-8 to switch off output
 conversion routine "Conversion Internal > External WBS Element Number"
 (CONVERSION EXIT ABPSP OUTPUT).
- Various fields renamed to facilitate "Jump To" functions,
 e.g. acdoca.belnr -> AccountingDocument
Layered structure of CDS-views (CDS-views only delivering attributes or texts are not shown):
 ZC_FI_ACDOCAPCOOI - Cube-view
|- ZP_FI_ACDOCAPCOOI - Enrichment view
| - ZP_FI_ACDOCAPCOOI_UN - Union
| | - ZB_FIGL_ACDOCA - Basic view Actuals
 | | - ZB FIGL ACDOCP - Basic view Plan
 - Basic view Commitments
 | | - ZB PUR COOI
 | | |- cooi
 | | |- ekkn
 | | | |- tka01
 | |- I WBSElementBasicData - Master data of WBS-element
 | | |- prps, proj
 | |- I_CalendarDate
| | |- scal_tt_date
                              - Time characteristics based on Posting Date
 | |- ZB PS AFVC CAUFV - Description and WBS-el.of Network Activity
 | | |- afvc
 | |- caufv
 |- ...
       I- skal
        |- fagl 011zc
        |- fagl 011pc
 |- I GLAccountInChartOfAccounts - Attributes of G/L Account
 | |- ska1
 I- ekko
Change-log:
______
*/
@EndUserText.label: 'FI: Fin.Analysis Actuals+Plan+Commitm.'
@AbapCatalog.sqlViewName: 'ZCFIACDOCAPCOOI'
@Analytics: { dataCategory: #CUBE, dataExtraction.enabled: true }
@VDM.viewType: #COMPOSITE
@AbapCatalog.compiler.compareFilter: true
@AbapCatalog.preserveKey: true
@AccessControl.authorizationCheck: #CHECK
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define view ZC FI ACDOCAPCOOI as select from ZP FI ACDOCAPCOOI
//--Associations to SAP-delivered master data views
 association[0..1] to I CompanyCode
                                            as CompanyCode
                                                                       on $projection.CompanyCode
                                                                                                             = CompanyCode.CompanyCode
 association[0..1] to I ControllingArea
                                            as ControllingArea
                                                                       on $projection.ControllingArea
                                                                                                               ControllingArea.ControllingArea
 association[0..*] to I CostCenter
                                            as CostCenter
                                                                       on $projection.ControllingArea
                                                                                                                CostCenter.ControllingArea and
                                                                          $projection.CostCenter
                                                                                                                CostCenter.CostCenter
                                                                                                                ProfitCenter.ControllingArea and
 association[0..*] to I ProfitCenter
                                            as ProfitCenter
                                                                       on $projection.ControllingArea
                                                                          $projection.ProfitCenter
                                                                                                             = ProfitCenter.ProfitCenter
 association[0..1] to I InternalOrder
                                            as Order
                                                                       on $projection.InternalOrder
                                                                                                             = Order.InternalOrder
                                                                                                               DebitCreditText.DebitCreditCode
 association[0..*] to I DebitCreditCodeText as DebitCreditText
                                                                       on $projection.drcrk
                                                                       on $projection.AccountingDocumentType =
 association[0..*] to I AccountingDocumentTypeText as AccDocTypeText
AccDocTypeText.AccountingDocumentType
 association[0..*] to I AssetClassText
                                            as AssetClassText
                                                                       on Sprojection.anlkl
                                                                                                               AssetClassText.AssetClass
 association[0..*] to I LedgerText
                                            as LedgerText
                                                                       on $projection.Ledger
                                                                                                               LedgerText.Ledger
 association[0..*] to I FinancialTransactionTypeT as FinTransTypeText on $projection.rmvct
FinTransTypeText.FinancialTransactionType
 association[0..1] to I Supplier
                                            as Supplier
                                                                       on $projection.lifnr
                                                                                                             = Supplier.Supplier
 association[0..1] to I Customer
                                            as Customer
                                                                       on $projection.kunnr
                                                                                                             = Customer.Customer
                                                                       on $projection.werks
                                                                                                             = Plant.Plant
 association[0..1] to I Plant
                                               Plant
 association[0..1] to I Material
                                            as Material
                                                                       on $projection.matnr
                                                                                                               Material Material
 association[0..1] to I WBSElement
                                            as WBSElement
                                                                       on $projection.WBSElement
                                                                                                             = WBSElement.WBSElement
 association[0..1] to I CompanyCode
                                            as CompCodeWBS
                                                                       on $projection.WBSElement CompanyCode = CompCodeWBS.CompanyCode
 association[0..*] to I Projecttypetext
                                            as ProjectTypeText
                                                                       on $projection.ProjectType
                                                                                                               ProjectTypeText.ProjectType
 association[0..1] to I Project
                                            as Project
                                                                       on Sprojection. Project
                                                                                                               Project.Project
 association[0..1] to I WBSElement
                                            as WBSElementNwa
                                                                       on $projection.WBSElementNwa
                                                                                                                WBSElementNwa.WBSElement
 association[0..1] to I GLAccountInChartOfAccounts as GLAccount
                                                                       on $projection.ChartOfAccounts
                                                                                                                GLAccount.ChartOfAccounts and
                                                                          Sprojection.GLAccount
                                                                                                               GLAccount.GLAccount
 association[0..1] to I PurchasingDocument
                                            as PurchasingDocument
                                                                       on $projection.PurchasingDocument
PurchasingDocument.PurchasingDocument
//--Associations to custom master data views
 association[0..*] to ZT CA PartnerCompany as PartnerCompanyText
                                                                       on $projection.rassc
                                                                                                             = PartnerCompanyText.PartnerCompany
 association[0..*] to ZT FI FISCPER
                                            as FiscPerText
                                                                       on $projection.FiscalPeriod
                                                                                                               FiscPerText.FiscPer
 association[0..*] to ZT FI CATEGORY
                                            as CategoryText
                                                                       on $projection.category
                                                                                                                CategoryText.Category
 association[0..*] to ZT CA USRID
                                            as UsnamText
                                                                       on $projection.usnam
                                                                                                             = UsnamText.Usrid
 association[0..*] to ZT PS Network
                                            as NetworkText
                                                                       on $projection.nplnr
                                                                                                             = NetworkText.Network
 association[0..*] to ZT FI AWTYP
                                            as AwtypText
                                                                       on $projection.awtyp
                                                                                                             = AwtvpText.Awtvp
 association[0..*] to ZT FI ERGSL NS00
                                            as Ergsl01Text
                                                                       on $projection.ergsl lev01
                                                                                                             = Ergsl01Text.Ergsl
                                                                       on $projection.ergsl lev02
 association[0..*] to ZT FI ERGSL NS00
                                            as Ergs102Text
                                                                                                             = Ergs102Text.Ergs1
 association[0..*] to ZT FI ERGSL NS00
                                            as Ergs103Text
                                                                       on $projection.ergsl lev03
                                                                                                             = Ergs103Text.Ergs1
 association[0..*] to ZT FI ERGSL NS00
                                                                       on $projection.ergsl lev04
                                            as Ergsl04Text
                                                                                                             = Ergs104Text.Ergs1
 association[0..*] to ZT FI ERGSL NS00
                                            as Ergsl05Text
                                                                       on $projection.ergsl lev05
                                                                                                             = Ergsl05Text.Ergsl
//Key figures, currencies, units
//--Amount Actual/Plan
     @Semantics.amount.currencyCode: 'rkcur'
                                                  //--use this line to display currency with amount
    @DefaultAggregation: #SUM
    @EndUserText.label: 'Amount Act/Pln'
                                                //Amount in Global Currency (acdoca/acdocp.ksl)
    @EndUserText.label: 'Curr.Act/Pln'
    rkcur,
                                                //Global Currency (acdoca/acdocp.rkcur)
//--Quantity Actual/Plan
    @Semantics.quantity.unitOfMeasure: 'quant ap unit'
    @DefaultAggregation: #SUM
    @EndUserText.label: 'Qty Act/Pln'
                                                //Quantity (acdoca.msl/acdocp.vmsl -> quant ap)
    quant ap,
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@EndUserText.label: 'UoM Qty Act/Pln'
   quant ap unit,
                                                 //UoM for Quantity (acdoca.runit/acdocp.rvunit -> quant ap unit)
//--Amount Commitment Actual/Plan
   @Semantics.amount.currencyCode: 'tka01 cur' //--use this line to display currency with amount
   @DefaultAggregation: #SUM
   @EndUserText.label: 'Amount Com'
   wkabtr,
                                                 //Total Value (cooi.wkgbtr)
     @Semantics.amount.currencyCode: 'tka01 cur' //--use this line to display currency with amount
   @DefaultAggregation: #SUM
   @EndUserText.label: 'Amount Com Pln'
   orgwtk,
                                                 //Planned Value (cooi.orgwtk)
    @EndUserText.label: 'Curr.Com (Pln)'
   tka01 cur,
                                                 //Currency Key (tka01.waers)
//--Quantity Commitment Actual/Plan
   @Semantics.quantity.unitOfMeasure: 'meinh cooi'
   @DefaultAggregation: #SUM
   @EndUserText.label: 'Qty Com'
   meabtr,
                                                 //Total Quantity (cooi.megbtr)
   @Semantics.quantity.unitOfMeasure: 'meinh cooi'
   @DefaultAggregation: #SUM
   @EndUserText.label: 'Qty Com Pln'
    aesmna.
                                                 //Planned Ouantity (cooi.gesmng)
   @EndUserText.label: 'UoM Qty Com (Pln)'
   meinh cooi,
                                                 //Unit of Measure (cooi.meinh)
//--Generic counter
   @DefaultAggregation: #SUM
   @EndUserText.label: 'No.Records'
   Counter,
                                                 //Generic counter for records in table/view
//Characteristics
    @EndUserText.label: 'Source (ACDOCA/ACDOCP/COOI)'
   Source.
                                                 //Source = 'ACDOCA', 'ACDOCP' or 'COOI'
//--Fields from table Actuals ACDOCA
    @ObjectModel.text.association: ' LedgerText'
    rldnr as Ledger,
                                                 //Ledger in General Ledger Accounting (acdoca/acdocp.rldnr)
    @ObjectModel.foreignKey.association: ' CompanyCode'
    rbukrs as CompanyCode,
                                                 //Company Code (acdoca/acdocp.rbukrs, cooi.bukrs)
    gjahr as FiscalYear,
                                                 //Fiscal Year (acdoca/acdocp/cooi.gjahr)
   belnr as AccountingDocument,
                                                 //Accounting Document (acdoca.belnr)
    docln as AccountingDocumentItem,
                                                 //Accounting Document Item (acdoca.docln)
   @ObjectModel.text.association: 'FinTransTypeText'
    rmvct.
                                                 //Transaction type (acdoca/acdocp.rmvct)
   @ObjectModel.text.association: ' AwtypText'
                                                 //Reference procedure (acdoca/acdocp.awtyp, cooi.rftyp)
    @ObjectModel.foreignKey.association: 'GLAccount'
   racct as GLAccount,
                                                 //G/L Account (acdoca/acdocp.racct/cooi.sakto)
    @ObjectModel.foreignKey.association: ' CostCenter'
    rcntr as CostCenter,
                                                 //Cost Center (acdoca/acdocp.rcntr, ekkn.kostl)
    @ObjectModel.foreignKey.association: ' ProfitCenter'
   prctr as ProfitCenter,
                                                 //Profit Center (acdoca/acdocp/ekkn.prctr)
                                                 //Business Area (acdoca/acdocp.rbusa)
    rbusa,
    @ObjectModel.foreignKey.association: ' ControllingArea'
   kokrs as ControllingArea,
                                                 //Controlling Area (acdoca/acdocp/cooi.kokrs)
   @ObjectModel.text.association: ' PartnerCompanyText'
   rassc,
                                                 //Company ID of trading partner (acdoca/acdocp.rassc, cooi.vbund)
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@ObjectModel.text.association: ' DebitCreditText'
drcrk.
                                              //Debit/Credit Indicator (acdoca.drcrk, acdocp.co belkz/cooi.beknz -> drcrk)
@EndUserText.label: 'Fiscal Period (SAP)'
                                              //Posting period (acdoca/acdocp.poper, cooi.perio)
@ObjectModel.text.association: 'FiscPerText'
@EndUserText.label: 'Fiscal Period'
FiscPer as FiscalPeriod,
                                              //Posting period (acdoca/acdocp.poper, cooi.perio) as CHAR-3
periv as FiscalYearVariant,
                                              //Fiscal Year Variant (acdoca/acdocp.periv)
fiscyearper as FiscalyearPeriod,
                                              //Period/year (acdoca/acdocp.fiscyearper, cooi.gjahr+perio)
                                              //Posting Date (acdoca/acdocp.budat), Expected Debit Date (cooi.budat)
budat as PostingDate,
bldat.
                                              //Document Date (acdoca/cooi.bldat)
@ObjectModel.text.association: ' AccDocTypeText'
blart as AccountingDocumentType,
                                              //Document type (acdoca.blart)
zuonr.
                                              //Assignment number (acdoca.zuonr)
bschl.
                                              //Posting Key (acdoca.bschl)
@ObjectModel.text.association: ' UsnamText'
                                              //User Name (acdoca/acdocp.usnam)
timestamp,
                                              //UTC-timestamp (acdoca/cooi.timestamp)
ktopl as ChartOfAccounts,
                                              //Chart of Accounts (acdoca/acdocp.ktopl)
@EndUserText.label: 'Pur.doc.'
ebeln as PurchasingDocument,
                                              //Purchasing Document (acdoca.ebeln, cooi.refbn = ebeln)
@EndUserText.label: 'Pur.doc.pos'
                                              //Purchasing Document Item (acdoca.ebelp, cooi.rfpos = ebelp)
ebelp,
@EndUserText.label: 'Pur.doc.pos.text'
                                              //Item Text (acdoca/acdocp/cooi.sqtxt)
@ObjectModel.foreignKey.association: ' Material'
                                              //Material (acdoca/acdocp/cooi.matnr)
@ObjectModel.foreignKey.association: ' Plant'
werks,
                                              //Plant (acdoca/acdocp.werks)
@ObjectModel.foreignKey.association: 'Supplier'
                                              //Vendor (acdoca/cooi.lifnr)
@ObjectModel.foreignKey.association: ' Customer'
kunnr,
                                              //Customer (acdoca/acdocp.kunnr)
koart.
                                              //Account Type (acdoca.koart)
                                              //Tax on sales/purchases code (acdoca.mwskz)
mwskz,
                                              //Short key for a house bank (acdoca.hbkid)
hbkid.
hktid,
                                              //ID for account details (acdoca.hktid)
                                              //Indicator: Open Item Management? (acdoca.xopvw)
wvqox,
                                             //Clearing Date (acdoca.augdt)
augdt,
                                              //Document Number of the Clearing Document (acdoca.augbl)
augbl,
                                              //Fiscal Year of Clearing Document (acdoca.auggi)
auggi,
anln1,
                                              //Main Asset Number (acdoca.anln1)
anln2,
                                              //Asset Subnumber (acdoca.anln2)
anlgr,
                                             //Group Asset (acdoca.anlgr)
                                             //Subnumber of Group Asset (acdoca.anlgr2)
anlgr2,
@ObjectModel.text.association: ' AssetClassText'
anlkl.
                                              //Asset Class (acdoca.anlkl)
bwtar,
                                              //Valuation Type (acdoca.bwtar)
bwkev.
                                              //Valuation area (acdoca.bwkev)
objnr,
                                              //Object number (acdoca/acdocp/cooi.objnr)
accas,
                                              //Account Assignment (acdoca.accas)
                                              //Object Type (acdoca/acdocp.accasty)
accasty,
lstar,
                                              //Activity Type (acdoca/acdocp.lstar)
@ObjectModel.foreignKey.association: ' Order'
aufnr as InternalOrder,
                                              //Order Number (acdoca/acdocp/ekkn.aufnr)
autvp,
                                              //Order category (acdoca.autyp)
@EndUserText.label: 'WBS-element (number)'
cast(WBSElementInternalID as abap.char(8)) as WBSElementInternalID, //WBS-element, NUMC-8 (acdoca/acdocp/ekkn.ps psp pnr)
@ObjectModel.text.association: ' NetworkText'
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//Network Number (acdoca.nplnr)
    nplnr.
    nplnr vorgn,
                                                 //Network Activity (acdoca.nplnr vorgn)
                                                 //Partner Account Assignment (acdoca.paccas)
    paccas,
   paccasty,
                                                 //Partner Object Type (acdoca/acdocp.paccasty)
   matkl,
                                                 //Product Sold Group (acdoca/acdocp/cooi.matkl)
//--Fields only in table Plan ACDOCP
    reatsn,
                                                 //Request Transaction Sequence Number (acdocp.regtsn)
                                                 //Data packet number (acdocp.datapakid)
    datapakid,
                                                 //Data record number (acdocp.record)
    record,
    @ObjectModel.text.association: ' CategoryText'
    @EndUserText.label: 'Plan Category'
                                                 //Category (acdocp.category)
    category,
//--Fields from view Commitments ZB PUR COOI
    @EndUserText.label: 'Del.ind.pur.doc'
    loekz cooi,
                                                 //Deletion indicator in purchasing document (cooi.loekz)
//--Creation Date determined via different methods
    @EndUserText.label: 'Creation Date'
    zcpudt,
                                                 //Creation Date (acdoca.timestamp/acdocp.reqtsn/cooi.bldat)
//--Time characteristics from view I Calendardate based on Posting Date (acdoca/acdocp.budat) and Expected Debit Date (cooi.budat)
    @EndUserText.label: 'Cal.Week w/ Year'
    YearWeek.
                                                 //Year Week (scal tt date.yearweek)
    @EndUserText.label: 'Cal.Month w/ Year'
   YearMonth.
                                                 //Year Month (scal tt date.yearmonth)
    @EndUserText.label: 'Cal.Ouarter w/ Year'
    YearOuarter,
                                                 //Year Quarter (scal tt date.yearquarter)
    @EndUserText.label: 'Cal.Year'
    CalendarYear,
                                                 //Calendar Year (scal tt date.calendaryear)
    @EndUserText.label: 'Cal.Month w/o Year'
   CalendarMonth,
                                                 //Calendar Month (scal tt date.calendarmonth)
//--Fields from view I WBSElementBasicData
    @ObjectModel.foreignKey.association: 'WBSElement'
    @EndUserText.label: 'WBS-element'
    WBSElement.
                                                 //WBS-element, CHAR-24 (prps.posid)
    @ObjectModel.foreignKey.association: ' Project'
    Project,
                                                 //Project, CHAR-24 (proj.pspid)
    WBSDescription,
                                                  //WBS-element description (prps.post1)
    @ObjectModel.foreignKey.association: ' CompCodeWBS'
    @EndUserText.label: 'CoCode WBS-el.'
    WBSElement CompanyCode,
                                                  //Company Code of WBS-element (prps.pbukr)
    @ObjectModel.text.association: ' ProjectTypeText'
    ProjectType,
                                                  //Project Type (prps.prart)
//--Fields from view ZB PS AFVC CAUFV
    @EndUserText.label: 'Network activity descr.'
    NplnrVorgnText,
                                                  //Network Activity description (afvc.ltxal)
    @ObjectModel.foreignKey.association: ' WBSElementNwa'
    @EndUserText.label: 'WBS-element NWA'
    WBSElementNwa,
                                                 //WBS-element of Network Activity (prps.posid <- afvc.projn)
//--Fields from view ZA FI RACCT HIER PAR, hierarchy 'NS00'
    @EndUserText.label: 'G/L Acc.hier.level'
    ergsl stufe,
                                                 //Financial Statement Item Hierarchy Level (faql 011pc.stufe)
    @EndUserText.label: 'G/L Acc.hier.lev.0'
    ergsl lev00,
                                                 //Financial Statement Item (fagl 011zc.ergsl) level 0
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@ObjectModel.text.association: ' Ergsl01Text'
    @EndUserText.label: 'G/L Acc.hier.lev.1'
   ergsl lev01,
                                                 //Financial Statement Item (fagl 011zc.ergsl) level 1
   @ObjectModel.text.association: ' Ergsl02Text'
   @EndUserText.label: 'G/L Acc.hier.lev.2'
   ergsl lev02,
                                                 //Financial Statement Item (fagl 011zc.ergsl) level 2
   @ObjectModel.text.association: ' Ergsl03Text'
   @EndUserText.label: 'G/L Acc.hier.lev.3'
   ergsl lev03,
                                                 //Financial Statement Item (fagl 011zc.ergsl) level 3
   @ObjectModel.text.association: 'Ergsl04Text'
   @EndUserText.label: 'G/L Acc.hier.lev.4'
   ergsl lev04,
                                                 //Financial Statement Item (fagl 011zc.ergsl) level 4
   @ObjectModel.text.association: ' Ergsl05Text'
   @EndUserText.label: 'G/L Acc.hier.lev.5'
   ergsl lev05,
                                                 //Financial Statement Item (fagl 011zc.ergsl) level 5
//--Fields from view I GLAccountInChartOfAccounts
    GLAccount.ChartOfAccounts as ChartOfAccountsGLAcc, //(included in selection list for technical reasons)
   @EndUserText.label: 'Balance Accounts?'
    GLAccount.IsBalanceSheetAccount,
                                                 //Indicator: Account is a balance sheet account? (skal.xbilk)
    GLAccount.GLAccountGroup,
                                                 //G/L Account Group (skal.ktoks)
    GLAccount.GLAccountType,
                                                 //Type of a General Ledger Account (skal.glaccount type)
    @EndUserText.label: 'Profit&Loss Accounts?'
    GLAccount.IsProfitLossAccount,
                                                 //(ska1.xbilk)-> Indicator: Account is a profit & loss account?
//--Fields from view I PurchasingDocument
    PurchasingDocument.PurchasingDocumentCategory, //Purchasing Document Category (ekko.bstyp)
   PurchasingDocument.PurchasingDocumentType,
                                                     //Purchasing Document Type (ekko.bsart)
//Associations to be passed on to the queries
    CompanyCode,
    ControllingArea,
    CostCenter,
   ProfitCenter,
    Order,
    DebitCreditText,
    AccDocTypeText,
    AssetClassText,
    LedgerText,
    FinTransTypeText,
    Supplier,
    Customer,
    Plant,
    Material,
    WBSElement,
    CompCodeWBS,
    ProjectTypeText,
    Project,
    WBSElementNwa,
    GLAccount,
    GLAccount. GLAccountType,
    GLAccount. GLAccountGroup,
    PurchasingDocument,
    PurchasingDocument. PurchasingDocumentCategory,
    PurchasingDocument. PurchasingDocumentType,
    PartnerCompanyText,
    FiscPerText,
    CategoryText,
```

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_UsnamText,
_NetworkText,
_AwtypText,
_Ergsl01Text,
_Ergsl02Text,
_Ergsl03Text,
_Ergsl04Text,
_Ergsl05Text
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