```abap
/* Freek Keijzer, myBrand, 20.03.2020
Query-view for financial analysis Actuals+Plan+Commitments.

Available key figures (in initial view only first three are shown):
1. Amount Actual
2. Amount Plan
3. Amount Commitment
4. Amount Commitment Plan
5. Quantity Actual
6. Quantity Plan
7. Quantity Commitment
8. Quantity Commitment Plan
9. No Records

Special functions for characteristics:
- Parameter (mandatory, single value) on "Plan Category"
- Filter on "Ledger" with default value '0L'
- Filter on "Indicator: Account is a profit & loss account?" with
  default value 'Yes', which suppresses balance sheet accounts
- Filter on Creation Date to facilitate "making the data less real-time",
  as one can fill in '01.01.1900' - [yesterday]
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Change-log:
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@EndUserText.label: 'FI: Fin.Analysis Actuals+Plan+Commitm.'
@AbapCatalog.sqlViewName: 'ZQFIACDOCAPCOOI'

@VDM.viewType: #CONSUMPTION
@Analytics.query: true
@Analytics.settings.maxProcessingEffort: #HIGH
@OData.publish: true
@AbapCatalog.compiler.compareFilter: true
@AbapCatalog.preserveKey: true
@AccessControl.authorizationCheck: #CHECK

@AbapCatalog.dbHints: [{dbSystem: #HDB, hint: 'USE_OLAP_PLAN'}]

define view ZQ_FI_ACDOCAPCOOI
with parameters
    @EndUserText.label: 'Plan Category'
    @AnalyticsDetails.query.variableSequence : 100
    p_Version : category
as select from ZC_FI_ACDOCAPCOOI
{
//Key figures, currencies, units
//--Amount Actual/Plan
    @AnalyticsDetails.query.decimals: 0
    @EndUserText.label: 'Amount Act'
    case
      when Source = 'ACDOCA' then ksl
      else 0
    end as amount_a,                        //Amount Actual in Global Currency (acdoca.ksl)
    @AnalyticsDetails.query.decimals: 0
    @EndUserText.label: 'Amount Pln'
    case
      when (Source = 'ACDOCP'  and category = :p_Version) then ksl
      else 0
    end as amount_p,                        //Amount Plan in Global Currency (acdocp.ksl)
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    rkcur,                                  //Global Currency (acdoca/acdocp.rkcur)

//--Amount Commitment Actual/Plan
    @AnalyticsDetails.query.decimals: 0
    wkgbtr,                                 //Total Value (cooi.wkgbtr)
    @AnalyticsDetails.query.hidden: true
    @AnalyticsDetails.query.decimals: 0
    orgwtk,                                 //Planned Value (cooi.orgwtk)
    tka01_cur,                              //Currency Key (tka01.waers)

//--Quantity Actual/Plan
    @AnalyticsDetails.query.hidden: true
    @EndUserText.label: 'Qty Act'
    case
      when Source = 'ACDOCA' then quant_ap
      else 0
    end as quant_a,                         //Quantity Actual (acdoca.msl)
    @AnalyticsDetails.query.hidden: true
    @EndUserText.label: 'Qty Pln'
    case
      when Source = 'ACDOCP' then quant_ap
      else 0
    end as quant_p,                         //Quantity Plan (acdocp.vmsl)
    quant_ap_unit,                          //UoM for Quantity (acdoca.runit/acdocp.rvunit -> quant_ap_unit)

//--Quantity Commitment Actual/Plan
    @AnalyticsDetails.query.hidden: true
    megbtr,                                 //Total Quantity (cooi.megbtr)
    @AnalyticsDetails.query.hidden: true
    gesmng,                                 //Planned Quantity (cooi.gesmng)
    meinh_cooi,                             //Unit of Measure (cooi.meinh)

//--Generic counter
    @AnalyticsDetails.query.hidden: true
    Counter,                                //Generic counter for records in table/view

//Characteristics initially in rows
    @AnalyticsDetails.query.axis: #ROWS
    @AnalyticsDetails.query.display: #KEY_TEXT
    @AnalyticsDetails.query.totals: #SHOW
    GLAccount,                              //G/L Account (acdoca/acdocp.racct/cooi.sakto)

//Free characteristics
    @Consumption.filter: {selectionType: #SINGLE, multipleSelections: true, mandatory: false}
    @AnalyticsDetails.query.variableSequence : 10
    Source,                                 //Source = 'ACDOCA', 'ACDOCP' or 'COOI'

//--Fields from table Actuals ACDOCA
    @Consumption.filter: {selectionType: #SINGLE, multipleSelections: true, mandatory: false, defaultValue: '0L'}
    @AnalyticsDetails.query.variableSequence : 20
    Ledger,                                 //Ledger in General Ledger Accounting (acdoca/acdocp.rldnr)
    @Consumption.filter: {selectionType: #SINGLE, multipleSelections: true, mandatory: false}
    @AnalyticsDetails.query.variableSequence : 30
    @AnalyticsDetails.query.display: #KEY_TEXT
    CompanyCode,                            //Company Code (acdoca/acdocp.rbukrs, cooi.bukrs)
    @Consumption.filter: {selectionType: #INTERVAL, multipleSelections: true, mandatory: false}
    @AnalyticsDetails.query.variableSequence : 110
    FiscalYear,                             //Fiscal Year (acdoca/acdocp/cooi.gjahr)
    AccountingDocument,                     //Accounting Document (acdoca.belnr)
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AccountingDocumentItem,                       //Accounting Document Item (acdoca.docln)
@AnalyticsDetails.query.display: #KEY_TEXT
rmvct,                                        //Transaction type (acdoca/acdocp.rmvct)
awtyp,                                        //Reference procedure (acdoca/acdocp.awtyp, cooi.rftyp)
@AnalyticsDetails.query.display: #KEY_TEXT
CostCenter,                                   //Cost Center (acdoca/acdocp.rcntr, ekkn.kostl)
@Consumption.filter: {selectionType: #SINGLE, multipleSelections: true, mandatory: false}
@AnalyticsDetails.query.variableSequence : 40
@AnalyticsDetails.query.display: #KEY_TEXT
ProfitCenter,                                 //Profit Center (acdoca/acdocp/ekkn.prctr)
rbusa,                                        //Business Area (acdoca/acdocp.rbusa)
@AnalyticsDetails.query.display: #KEY_TEXT
ControllingArea,                              //Controlling Area (acdoca/acdocp/cooi.kokrs)
@AnalyticsDetails.query.display: #KEY_TEXT
rassc,                                        //Company ID of trading partner (acdoca/acdocp.rassc, cooi.vbund)
@AnalyticsDetails.query.display: #TEXT
drcrk,                                        //Debit/Credit Indicator (acdoca.drcrk, acdocp.co_belkz/cooi.beknz -> drcrk)
@Consumption.filter: {selectionType: #INTERVAL, multipleSelections: true, mandatory: false}
@AnalyticsDetails.query.variableSequence : 120
FiscalPeriod,                                 //Posting period (acdoca/acdocp.poper, cooi.perio) as CHAR-3
FiscalYearVariant,                            //Fiscal Year Variant (acdoca/acdocp.periv)
FiscalyearPeriod,                             //Period/year (acdoca/acdocp.fiscyearper, cooi.gjahr+perio)
PostingDate,                                  //Posting Date (acdoca/acdocp.budat), Expected Debit Date (cooi.budat)
bldat,                                        //Document Date (acdoca/cooi.bldat)
@Consumption.filter: {selectionType: #SINGLE, multipleSelections: true, mandatory: false}
@AnalyticsDetails.query.variableSequence : 70
@AnalyticsDetails.query.display: #KEY_TEXT
AccountingDocumentType,                       //Document type (acdoca.blart)
zuonr,                                        //Assignment number (acdoca.zuonr)
bschl,                                        //Posting Key (acdoca.bschl)
usnam,                                        //User Name (acdoca/acdocp.usnam)
timestamp,                                    //UTC-timestamp (acdoca/cooi.timestamp)
@AnalyticsDetails.query.display: #TEXT
ChartOfAccounts,                              //Chart of Accounts (acdoca/acdocp.ktopl)
PurchasingDocument,                           //Purchasing Document (acdoca.ebeln, cooi.refbn = ebeln)
ebelp,                                        //Purchasing Document Item (acdoca.ebelp, cooi.rfpos = ebelp)
sgtxt,                                        //Item Text (acdoca/acdocp/cooi.sgtxt)
matnr,                                        //Material (acdoca/acdocp/cooi.matnr)
werks,                                        //Plant (acdoca/acdocp.werks)
@AnalyticsDetails.query.display: #KEY_TEXT
lifnr,                                        //Vendor (acdoca/cooi.lifnr)
@AnalyticsDetails.query.display: #KEY_TEXT
kunnr,                                        //Customer (acdoca/acdocp.kunnr)
@AnalyticsDetails.query.display: #TEXT
koart,                                        //Account Type (acdoca.koart)
mwskz,                                        //Tax on sales/purchases code (acdoca.mwskz)
hbkid,                                        //Short key for a house bank (acdoca.hbkid)
hktid,                                        //ID for account details (acdoca.hktid)
xopvw,                                        //Indicator: Open Item Management? (acdoca.xopvw)
augdt,                                        //Clearing Date (acdoca.augdt)
augbl,                                        //Document Number of the Clearing Document (acdoca.augbl)
auggj,                                        //Fiscal Year of Clearing Document (acdoca.auggj)
anln1,                                        //Main Asset Number (acdoca.anln1)
anln2,                                        //Asset Subnumber (acdoca.anln2)
anlgr,                                        //Group Asset (acdoca.anlgr)
anlgr2,                                       //Subnumber of Group Asset (acdoca.anlgr2)
@AnalyticsDetails.query.display: #KEY_TEXT
anlkl,                                        //Asset Class (acdoca.anlkl)
bwtar,                                        //Valuation Type (acdoca.bwtar)
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    bwkey,                                  //Valuation area (acdoca.bwkey)
    objnr,                                  //Object number (acdoca/acdocp/cooi.objnr)
    accas,                                  //Account Assignment (acdoca.accas)
    accasty,                                //Object Type (acdoca/acdocp.accasty)
    lstar,                                  //Activity Type (acdoca/acdocp.lstar)
    @AnalyticsDetails.query.display: #KEY_TEXT
    InternalOrder,                          //Order Number (acdoca/acdocp/ekkn.aufnr)
    autyp,                                  //Order category (acdoca.autyp)
    WBSElementInternalID,                   //WBS-element, NUMC-8 (acdoca/acdocp/ekkn.ps_psp_pnr)
    @AnalyticsDetails.query.display: #KEY_TEXT
    nplnr,                                  //Network Number (acdoca.nplnr)
    nplnr_vorgn,                            //Network Activity (acdoca.nplnr_vorgn)
    paccas,                                 //Partner Account Assignment (acdoca.paccas)
    paccasty,                               //Partner Object Type (acdoca/acdocp.paccasty)
    matkl,                                  //Product Sold Group (acdoca/acdocp/cooi.matkl)

//---Fields only in table Plan ACDOCP
    reqtsn,                                 //Request Transaction Sequence Number (acdocp.reqtsn)
    datapakid,                              //Data packet number (acdocp.datapakid)
    record,                                 //Data record number (acdocp.record)
    category,                               //Category (acdocp.category)

//---Fields from view Commitments ZB_PUR_COOI
    loekz_cooi,                             //Deletion indicator in purchasing document (cooi.loekz)

//---Creation Date determined via different methods
    @Consumption.filter: {selectionType: #INTERVAL, multipleSelections: false, mandatory: false }
    @AnalyticsDetails.query.variableSequence : 140
    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)
    YearWeek,                               //Year Week (scal_tt_date.yearweek)
    YearMonth,                              //Year Month (scal_tt_date.yearmonth)
    YearQuarter,                            //Year Quarter (scal_tt_date.yearquarter)
    CalendarYear,                           //Calendar Year (scal_tt_date.calendaryear)
    @AnalyticsDetails.query.display: #KEY_TEXT
    CalendarMonth,                          //Calendar Month (scal_tt_date.calendarmonth)

//---Fields from view I_WBSElementBasicData
    @AnalyticsDetails.query.display: #KEY_TEXT
    WBSElement,                             //WBS-element, CHAR-24 (prps.posid)
    @AnalyticsDetails.query.display: #KEY_TEXT
    Project,                                //Project, CHAR-24 (proj.pspid)
    @AnalyticsDetails.query.display: #KEY_TEXT
    WBSElement_CompanyCode,                 //Company Code of WBS-element (prps.pbukr)
    @AnalyticsDetails.query.display: #TEXT
    ProjectType,                            //Project Type (prps.prart)

//---Fields from view ZB_PS_AFVC_CAUFV
    NplnrVorgnText,                         //Network Activity description (afvc.ltxa1)
    @AnalyticsDetails.query.display: #KEY_TEXT
    WBSElementNwa,                          //WBS-element of Network Activity (prps.posid <- afvc.projn)

//---Fields from view ZA_FI_RACCT_HIER_PAR, hierarchy 'NS00'
    ergsl_stufe,                            //Financial Statement Item Hierarchy Level (fagl_011pc.stufe)
    @AnalyticsDetails.query.display: #TEXT
    ergsl_lev01,                            //Financial Statement Item (fagl_011zc.ergsl) level 1
    @AnalyticsDetails.query.display: #TEXT
    ergsl_lev02,                            //Financial Statement Item (fagl_011zc.ergsl) level 2
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    @AnalyticsDetails.query.display: #TEXT
    ergsl_lev03,                              //Financial Statement Item (fagl_011zc.ergsl) level 3
    @AnalyticsDetails.query.display: #TEXT
    ergsl_lev04,                              //Financial Statement Item (fagl_011zc.ergsl) level 4
    @AnalyticsDetails.query.display: #TEXT
    ergsl_lev05,                              //Financial Statement Item (fagl_011zc.ergsl) level 5

//--Fields from view I_GLAccountInChartOfAccounts
    @AnalyticsDetails.query.display: #TEXT
    GLAccountGroup,                           //G/L Account Group (ska1.ktoks)
    @AnalyticsDetails.query.display: #TEXT
    GLAccountType,                            //Type of a General Ledger Account (ska1.glaccount_type)
    @Consumption.filter: {selectionType: #SINGLE, multipleSelections: true, mandatory: false, defaultValue: 'X'}
    @AnalyticsDetails.query.variableSequence : 80
    IsProfitLossAccount,                      //(ska1.xbilk)-> Indicator: Account is a profit & loss account?

//--Field from view I_PurchasingDocument
    @AnalyticsDetails.query.display: #TEXT
    PurchasingDocumentCategory,               //Purchasing Document Category (ekko.bstyp)
    @AnalyticsDetails.query.display: #TEXT
    PurchasingDocumentType                    //Purchasing Document Type (ekko.bsart)
}
```