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/* Freek Keijzer, myBrand, 03.09.2019
Dataset for flattened hierarchy of GL Account.
Source tables:
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SKA1      : "G/L Account Master (Chart of Accounts)"
FACL_011ZC: "Fin. Statement Structure: Assignment FS Items - G/L Account"
FAGL_011PC: "Fin. Statement Structure: Items in Fin. Statement Structure"
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Starting point for the views are Accounts in table SKA1.  
Table FACL\_011ZC gives relation between Account and first node.  
Via table FAGL\_011PC, the hierarchy can be "climbed upwards".  
Field fagl\_011pc.stufe gives the level of the Account in the hierarchy.  
In this view, 9 levels are "climbed upwards".  
This is sufficient for a value of stufe of max. 10.

Different hierarchies exist for different values of field  
"Financial Statement Version" (fagl\_011zc/pc.versn).

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Change-log:

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JIRA-story 12345, 27-05-2020, Danny Linders  
Parametrized version of ZB\_FI\_RACCT\_HIER  
with fagl\_011zc/pc.versn = parameter p\_versn in order  
to be able to use 1 view for different hierarchies.  
-----\*/  
@EndUserText.label: 'FI: Data for G/L Account Hierarchy'  
@AbapCatalog.sqlViewName: 'ZBFIRACCTHIERPAR'

@AbapCatalog.compiler.compareFilter: true  
@AbapCatalog.preserveKey: true  
@AccessControl.authorizationCheck: #CHECK

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define view ZB_FI_RACCT_HIER_PAR
with parameters
    p_versn : versn_011
as select from skal
/-- Position with description
left outer join fagl_011zc as _leaf
    on _leaf.versn = :p_versn and
        _leaf.ktopl = 'NS00' and
        _leaf.vonkt <= skal.saknr and
        _leaf.biskt >= skal.saknr
/-- 1 level up
left outer join fagl_011pc as _node
    on _node.versn = :p_versn and
        _node.ergsl = _leaf.ergsl
left outer join fagl_011pc as _node2
    on _node2.versn = :p_versn and
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        _node2.id      = _node.parent
//--- 2 levels up
    left outer join fagl_011pc as _node_up1
        on _node_up1.versn = :p_versn and
           _node_up1.ergsl = _node2.ergsl
    left outer join fagl_011pc as _node2_up1
        on _node2_up1.versn = :p_versn and
           _node2_up1.id    = _node_up1.parent
//--- 3 levels up
    left outer join fagl_011pc as _node_up2
        on _node_up2.versn = :p_versn and
           _node_up2.ergsl = _node2_up1.ergsl
    left outer join fagl_011pc as _node2_up2
        on _node2_up2.versn = :p_versn and
           _node2_up2.id    = _node_up2.parent
//--- 4 levels up
    left outer join fagl_011pc as _node_up3
        on _node_up3.versn = :p_versn and
           _node_up3.ergsl = _node2_up2.ergsl
    left outer join fagl_011pc as _node2_up3
        on _node2_up3.versn = :p_versn and
           _node2_up3.id    = _node_up3.parent
//--- 5 levels up
    left outer join fagl_011pc as _node_up4
        on _node_up4.versn = :p_versn and
           _node_up4.ergsl = _node2_up3.ergsl
    left outer join fagl_011pc as _node2_up4
        on _node2_up4.versn = :p_versn and
           _node2_up4.id    = _node_up4.parent
//--- 6 levels up
    left outer join fagl_011pc as _node_up5
        on _node_up5.versn = :p_versn and
           _node_up5.ergsl = _node2_up4.ergsl
    left outer join fagl_011pc as _node2_up5
        on _node2_up5.versn = :p_versn and
           _node2_up5.id    = _node_up5.parent
//--- 7 levels up
    left outer join fagl_011pc as _node_up6
        on _node_up6.versn = :p_versn and
           _node_up6.ergsl = _node2_up5.ergsl
    left outer join fagl_011pc as _node2_up6
        on _node2_up6.versn = :p_versn and
           _node2_up6.id    = _node_up6.parent
//--- 8 levels up
    left outer join fagl_011pc as _node_up7
        on _node_up7.versn = :p_versn and
           _node_up7.ergsl = _node2_up6.ergsl

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left outer join fagl_011pc as _node2_up7
on _node2_up7.versn = :p_versn and
_node2_up7.id = _node_up7.parent
/-- 9 levels up
left outer join fagl_011pc as _node_up8
on _node_up8.versn = :p_versn and
_node_up8.ergsl = _node2_up7.ergsl
left outer join fagl_011pc as _node2_up8
on _node2_up8.versn = :p_versn and
_node2_up8.id = _node_up8.parent

{
//skal
key skal.ktopl,           //Chart of Accounts (skal.ktopl)
key skal.saknr,           //G/L Account Number (skal.saknr)

//fagl_011zc, fagl_011pc
_leaf.ergsl,              //Financial Statement Item (fagl_011zc.ergsl)
_node.stufe,              //Financial Statement Item Hierarchy Level (fagl_011pc.stufe)
_node2.ergsl as ergsl_up1, //Financial Statement Item (fagl_011zc.ergsl) 1 level up
_node2_up1.ergsl as ergsl_up2, //Financial Statement Item (fagl_011zc.ergsl) 2 levels up
_node2_up2.ergsl as ergsl_up3, //Financial Statement Item (fagl_011zc.ergsl) 3 levels up
_node2_up3.ergsl as ergsl_up4, //Financial Statement Item (fagl_011zc.ergsl) 4 levels up
_node2_up4.ergsl as ergsl_up5, //Financial Statement Item (fagl_011zc.ergsl) 5 levels up
_node2_up5.ergsl as ergsl_up6, //Financial Statement Item (fagl_011zc.ergsl) 6 levels up
_node2_up6.ergsl as ergsl_up7, //Financial Statement Item (fagl_011zc.ergsl) 7 levels up
_node2_up7.ergsl as ergsl_up8, //Financial Statement Item (fagl_011zc.ergsl) 8 levels up
_node2_up8.ergsl as ergsl_up9 //Financial Statement Item (fagl_011zc.ergsl) 9 levels up

}
where skal.ktopl = 'NS00'  /--Only 1 Controlling Area

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