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Rem =====
Rem  A_Sorting_OoBasic Program (Copyright:Shuichi Sunaga)
Rem (2005/10/31:262)(2009/09/22:375)(2012/05/09:346)
Rem Translation into English (2012/08/14:331)
Rem =====
Rem Sub Sort4Rep()  Sorting of BK,AP,AR,JV to arrange in report format
Rem Sub SortBK(ByVal key0%, ByVal key1%, ByVal key2%)
Rem Sub SortJV(ByVal key0%, ByVal key1%, ByVal key2%)
Rem Sub SortMW(ByVal iColPlus, iColAdd, iColDed, iColPost%) 'Ver2005/03/21
Rem Sub SortLN(ByVal strtRow%)
Rem Sub SortPara(ByVal oSortRange as object, ByVal key0, key1, key2%)
Rem Sub PostRAct(ByVal fRow&, ByVal fvEnd&, ByVal fCol_BalEnd%)
Rem Function LNEndLN%(ByVal StartLN%)
Rem =====
Option Explicit
Sub Sort4Rep()
    dim args(0) as new com.sun.star.beans.PropertyValue
    dim oCell as Object
    dim orgCol%, orgRow&, hiddenCol%
    hiddenCol% = 0
    IntroTo3D()
    args(0).Name = "AutomaticCalculation"
    If Not StopOrGo("Sort4Rep") then
        MsgTxt$ = "Sorting command is unusable on this " & aSName$ & "sheet."
        MsgTtl$ = "Test of Command of Applicability to the sheet"
        resp% = MsgBox(MsgTxt$, 16, MsgTtl$)
        End
    End If
    targetRow& = SeekTBRow&(aSheet, "ValMo", cMonth%, cMonth%, "Top")
    If IsCMDTNull then
        MsgTxt$ = "Will abort sorting due to lack of transaction data for the "&chr(13)
        MsgTxt$ = MsgTxt$ & "current month (" & CStr(cMonth%) & ")."
        MsgTtl$ = "Test of existence of current month transaction data"
        resp% = MsgBox(MsgTxt$, 0, MsgTtl$)
        End
    End If
    setOptState(aSName$) '--- include getPagePlan
    aSheet.UnProtect("pwd")
    args(0).Value = false
    dispatcher.executeDispatch(aController, ".uno:AutomaticCalculation", "", 0, args())
    If SelectionRow() < 3 Then
        SelectCell 3, SelectionColumn()
    End If
    orgRow& = SelectionRow()
    orgCol% = SelectionColumn()
    oCell=aSheet.getCellRangeByName(GetCellName$(orgRow&, orgCol%))
    aSheet.getCellRangeByPosition(0, CNRow%-1, 0, CNRow%-1).Rows.IsVisible = False
    aSheet.getCellRangeByPosition(0, CNRow%, 0, CNRow%).Rows.IsVisible = True
    Rem If aController.hasFrozenPanes () then
        Rem dispatcher.executeDispatch(aController.Frame, ".uno:FreezePanes", "", 0, Array())
    Rem End If
Rem =====
Select Case aSName$
    Case "BK"
        SortBK Col_ValMo%, Col_BKCD%, Col_LineNo%
        SetCellValue WkCL, 2, BKCol, cMonth%
    Case "JV"
        SortJV Col_ValMo%, Col_LineNo%, Col_InvDate%
        SetCellValue WkCL, 2, JVCol, cMonth%
        aController.Select(oCell)
    Case "AP"
        If bAllocDpt then
            SortMW NumDpt, Col_ValMo%, Col_PaidMo%, Col_Gross%
        Else
            SortMW 0, Col_ValMo%, Col_PaidMo%, Col_Gross%
        End If
        SetCellValue WkCL, 2, APCol, cMonth%
    Case "AR"
        If bAllocDpt then
            SortMW(NumDpt, Col_ValMo%, Col_PaidMo%, Col_Gross%)

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1 Rem =====
2 Rem  A_Sorting Excel VBA Program (Copyright:Shuichi Sunaga)
3 Rem (2012/04/24:281)
4 Rem Translation into English (2012/08/14:284)
5 Rem =====
6 Rem Sub Sort4Rep()  Sorting of BK,AP,AR,JV to arrange in report format
7 Rem Sub SortBK(ByVal key0%, ByVal key1%, ByVal key2%)
8 Rem Sub SortJV(ByVal key0%, ByVal key1%, ByVal key2%)
9 Rem Sub SortMW(ByVal iColPlus, iColAdd, iColDed, iColPost%) 'Ver2005/03/21
10 Rem Sub SortLN(ByVal strtRow%)
11 Rem Sub SortPara(ByVal oSortRange as object, ByVal key0, key1, key2%)
12 Rem Sub PostRAct(ByVal fRow&, ByVal fvEnd&, ByVal fCol_BalEnd%)
13 Rem Function LNEndLN%(ByVal StartLN%)
14 Rem =====
15 Option Explicit
16 Sub Sort4Rep()
17
18 Dim oCell As Range
19 Dim orgCol%, orgRow&, hiddenCol%
20 hiddenCol% = 0
21 IntroTo3D
22
23 If Not StopOrGo("Sort4Rep") Then
24     MsgTxt$ = "Sorting command is unusable on this " & aSName$ & "sheet."
25     MsgTtl$ = "Test of Command of Applicability to the sheet"
26     resp% = MsgBox(MsgTxt$, 16, MsgTtl$)
27     End
28 End If
29 targetRow& = SeekTBRow&(aSheet, "ValMo", cMonth%, cMonth%, "Top")
30 If IsCMDTNull Then
31     MsgTxt$ = "Will abort sorting due to lack of transaction data for the " & Chr(13)
32     MsgTxt$ = MsgTxt$ & "current month (" & CStr(cMonth%) & ")."
33     MsgTtl$ = "Test of existence of current month transaction data"
34     resp% = MsgBox(MsgTxt$, 0, MsgTtl$)
35     End
36 End If
37 setOptState (aSName$) '--- include getPagePlan
38 aSheet.Unprotect ("pwd")
39
40 Application.Calculation = xlManual
41 If SelectionRow < 3 Then
42     SelectCell 3, SelectionColumn%
43 End If
44 orgRow& = SelectionRow&
45 orgCol% = SelectionColumn%
46 Set oCell = aSheet.Cells(orgRow&, orgCol%)
47 aSheet.Rows(CNRow%).Hidden = True
48 aSheet.Rows(CNRow% + 1).Hidden = False
49
50
51
52 Rem =====
53 Select Case aSName$
54     Case "BK"
55         SortBK Col_ValMo%, Col_BKCD%, Col_LineNo%
56         SetCellValue WkCL, 2, BKCol, CLng(cMonth%)
57     Case "JV"
58         SortJV Col_ValMo%, Col_LineNo%, Col_InvDate%
59         SetCellValue WkCL, 2, JVCol, CLng(cMonth%)
60         oCell.Select
61     Case "AP"
62         If bAllocDpt Then
63             SortMW NumDpt, Col_ValMo%, Col_PaidMo%, Col_Gross%
64         Else
65             SortMW 0, Col_ValMo%, Col_PaidMo%, Col_Gross%
66         End If
67         SetCellValue WkCL, 2, APCol, CLng(cMonth%)
68     Case "AR"
69         If bAllocDpt Then
70             SortMW NumDpt, Col_ValMo%, Col_PaidMo%, Col_Gross%

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Else
    SortMW 0, Col_ValMo%, Col_PaidMo%, Col_Gross%
End If
SetCellValue WkCL, 2, ARCol, cMonth%
Case "MW"
If bAllocDpt then
    SortMW NumDpt, Col_PaidMo%, Col_ValMo%, Col_Amount%
Else
    SortMW 0, Col_PaidMo%, Col_ValMo%, Col_Amount%
End If
SetCellValue WkCL, 2, MWCol, cMonth%
End Select
Rem =====
Rem Unable to use formula in JE Amount column or With-VAT Amount column
If iWS(aSName$) <> 9 then
    aSheet.getCellRangeByPosition(0, 0, 0, 0).Rows.IsVisible = False
    args(0).Value = True
    dispatcher.executeDispatch(aController, ".uno:AutomaticCalculation", "", 0, args())
End If
If SelectionRow() < dbMonthTop & then
    SelectCell dbMonthTop + 1, SelectionColumn()
Elseif SelectionRow() > dbMonthBtm & then
    SelectCell dbMonthBtm + 1, SelectionColumn()
End If
aSheet.Protect("pwd")
End Sub
Sub SortBK(ByVal key0%, ByVal key1%, ByVal key2%)
Dim oCellRange As Object
Dim cRow&, newR&, sLine$, iBKCD%
Rem If WkBK.AutoFilterMode Then
    Rem WkBK.Columns(Col_Amount% + NumDpt + 2).AutoFilter
Rem End If
cRow& = SelectionRow&
sLine$ = CellString(WkBK, cRow&, Col_LineNo%)
iBKCD% = CellString(WkBK, cRow&, Col_BKCD%)
RNMS$ = cna$ & CStr(CNRow% + 2) & cjc$
RNMS$ = RNMS$ & CAlpha(Col_Amount% + NumDpt + 2) & "$" & CStr(dbBtmBorder&)
Set oCellRange = WkBK.getCellRangeByName(RNMS$)
SortPara oCellRange, key0%, key1%, key2%
targetRow& = SeekTBRow&(WkBK, "ValMo", cMonth%, cMonth%, "Btm")
RNMS$ = cna$ & CStr(CNRow% + 2) & cjc$ & cna$ & CStr(dbBtmBorder&)
WkBK.getCellRangeByName(RNMS$).Rows.IsVisible = False
If Not IsCMDTNull Then
    RNMS$ = cna$ & CStr(dbMonthTop&) & cjc$ & cna$ & CStr(dbMonthBtm&)
    WkBK.getCellRangeByName(RNMS$).Rows.IsVisible = true
End If

Rem aController.FreezeAtPosition(Col_Descr%, 2)
If CellValue(WkBK, cRow&, Col_ValMo%) = cMonth% Then
    newR& = getBKRow&(sLine$, iBKCD%)
    SelectCell myMin(cRow&, newR&), Col_Descr% + 1
    LineCalc ("N")
    SelectCell newR&, Col_Descr% + 1
End If
End Sub
Sub SortJV(ByVal key0%, ByVal key1%, ByVal key2%)
Dim oCellRange As Object
RNMS$ = cna$ & CStr(CNRow% + 2) & cjc$
RNMS$ = RNMS$ & CAlpha(Col_Amount% + NumDpt + 2) & "$" & CStr(dbBtmBorder& - 3)
Set oCellRange = WkJV.getCellRangeByName(RNMS$)
Rem aController.FreezeAtPosition(Col_Descr%, 2)
SortPara oCellRange, key0%, key1%, key2%
targetRow& = SeekTBRow&(WkJV, "ValMo", cMonth%, cMonth%, "Btm")
RNMS$ = cna$ & CStr(CNRow% + 2) & cjc$ & cna$ & CStr(dbBtmBorder& - 3)
WkJV.getCellRangeByName(RNMS$).Rows.IsVisible = False
If Not IsCMDTNull Then
    RNMS$ = cna$ & CStr(dbMonthTop&) & cjc$ & cna$ & CStr(dbMonthBtm&)
    WkJV.getCellRangeByName(RNMS$).Rows.IsVisible = True
End If
End Sub
RNMS$ = cna$ & CStr(dbBtmBorder& - 2) & cjc$ & cna$ & CStr(dbBtmBorder&)

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71 Else
72     SortMW 0, Col_ValMo%, Col_PaidMo%, Col_Gross%
73 End If
74 SetCellValue WkCL, 2, ARCol, CLng(cMonth%)
75 Case "MW"
76     If bAllocDpt Then
77         SortMW NumDpt, Col_PaidMo%, Col_ValMo%, Col_Amount%
78     Else
79         SortMW 0, Col_PaidMo%, Col_ValMo%, Col_Amount%
80     End If
81     SetCellValue WkCL, 2, MWCol, CLng(cMonth%)
82 End Select
83 Rem =====
84 Rem Unable to use formula in JE Amount column or With-VAT Amount column
85 If iWS(aSName$) <> 9 Then
86     aSheet.Rows(1).Hidden = True
87
88     Application.Calculation = xlAutomatic
89 End If
90 If SelectionRow < dbMonthTop& Then
91     SelectCell dbMonthTop& + 1, SelectionColumn%
92 Elseif SelectionRow() > dbMonthBtm& Then
93     SelectCell dbMonthBtm& + 1, SelectionColumn%
94 End If
95 aSheet.Protect ("pwd")
96 End Sub
97 Sub SortBK(ByVal key0%, ByVal key1%, ByVal key2%)
98 Dim oCellRange As Range
99 Dim cRow&, newR&, sLine$, iBKCD%
100 If WkBK.AutoFilterMode Then
101     WkBK.Columns(Col_Amount% + NumDpt + 2).AutoFilter
102 End If
103 cRow& = SelectionRow&
104 sLine$ = CellString(WkBK, cRow&, Col_LineNo%)
105 iBKCD% = CellString(WkBK, cRow&, Col_BKCD%)
106 RNMS$ = "$A$" & CStr(CNRow% + 2) & ":"
107 RNMS$ = RNMS$ & CAlpha(Col_Amount% + NumDpt + 2) & "$" & CStr(dbBtmBorder&)
108 Set oCellRange = WkBK.Range(RNMS$)
109 SortPara oCellRange, key0%, key1%, key2%
110 targetRow& = SeekTBRow&(WkBK, "ValMo", cMonth%, cMonth%, "Btm")
111 RNMS$ = "$A$" & CStr(CNRow% + 2) & ":" & "$A$" & CStr(dbBtmBorder&)
112 WkBK.Range(RNMS$).EntireRow.Hidden = True
113 If Not IsCMDTNull Then
114     RNMS$ = "$A$" & CStr(dbMonthTop&) & ":" & "$A$" & CStr(dbMonthBtm&)
115     WkBK.Range(RNMS$).EntireRow.Hidden = False
116 End If
117 SelectCell 3, Col_Descr% + 1
118 ActiveWindow.FreezePanels = True
119 If CellValue(WkBK, cRow&, Col_ValMo%) = cMonth% Then
120     newR& = getBKRow&(sLine$, iBKCD%)
121     SelectCell myMin(cRow&, newR&), Col_Descr% + 1
122     LineCalc ("N")
123     SelectCell newR&, Col_Descr% + 1
124 End If
125 End Sub
126 Sub SortJV(ByVal key0%, ByVal key1%, ByVal key2%)
127 Dim oCellRange As Range
128 RNMS$ = "$A$" & CStr(CNRow% + 2) & ":"
129 RNMS$ = RNMS$ & CAlpha(Col_Amount% + NumDpt + 2) & "$" & CStr(dbBtmBorder& - 3)
130 Set oCellRange = WkJV.Range(RNMS$)
131
132 SortPara oCellRange, key0%, key1%, key2%
133 targetRow& = SeekTBRow&(WkJV, "ValMo", cMonth%, cMonth%, "Btm")
134 RNMS$ = "$A$" & CStr(CNRow% + 2) & ":" & "$A$" & CStr(dbBtmBorder& - 3)
135 WkJV.Range(RNMS$).EntireRow.Hidden = True
136 If Not IsCMDTNull Then
137     RNMS$ = "$A$" & CStr(dbMonthTop&) & ":" & "$A$" & CStr(dbMonthBtm&)
138     WkJV.Range(RNMS$).EntireRow.Hidden = False
139 End If
140 RNMS$ = "$A$" & CStr(dbBtmBorder& - 2) & ":" & "$A$" & CStr(dbBtmBorder&)

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WkJV.getCellRangeByName(RNM$).Rows.IsVisible = True
End Sub
Sub SortMW(ByVal iColPlus%, iColAdd%, iColDed%, iColPost%)
dim oCellRange as object
dim xRow&, StrxRow&, Col_BalBeg%, Col_Incre%, Col_Decre%, Col_BalEnd%
dim mFormula$
dim lAmount&, vColAdd%, vColDed%, vEnd&
Col_BalBeg% = Col_Amount% + 1 + iColPlus%
Col_Incre% = Col_Amount% + 2 + iColPlus%
Col_Decre% = Col_Amount% + 3 + iColPlus%
Col_BalEnd% = Col_Amount% + 4 + iColPlus%
xRow& = CNRow%+2
ClearRange aSheet, 3, Col_BalBeg%, dbBtmBorder&-2, Col_BalEnd%+2
RNM$ = cna$ & CStr(CNRow% + 2) & cjc$
RNM$ = RNM$ & CAlpha(Col_BalEnd% + 4) & "$" & CStr(dbBtmBorder& - 2)
Set oCellRange= aSheet.getCellRangeByName(RNM$)
oCellRange.Rows.IsVisible = True
SelectCell 1, xRow&

Rem aController.FreezeAtPosition(Col_Descr, 2)
Dim ----- (First step to sort in the order of PaidMo / other keys are irrelevant) -----
If aSName$ = "MW" then
    SortPara oCellRange, KeyMW1, KeyMW2, KeyMW3 'Defined in VZ
Elseif aSName$ = "AP" then
    SortPara oCellRange, KeyAP1, KeyAP2, KeyAP3 'Defined in VZ
Elseif aSName$ = "AR" then
    SortPara oCellRange, KeyAR1, KeyAR2, KeyAR3 'Defined in VZ
End If
Rem -----
Do While xRow& <= dbBtmBorder&-2
lAmount& = CellValue(aSheet, xRow&, iColPost%)
mFormula$ = "-" & CAlpha(Col_BalBeg%) & Cstr(xRow&) & "+" & CAlpha(Col_BalBeg% + 1)
mFormula$ = mFormula$ & Cstr(xRow&) & "-" & CAlpha(Col_BalEnd% -1) & Cstr(xRow&)
vColAdd%=CellValue(aSheet, xRow&, iColAdd%)
vColDed%=CellValue(aSheet, xRow&, iColDed%)
SelectCell xRow&, Col_BalBeg%
If vColAdd% < cMonth% Then 'Accrued before current month
    if vColDed% < cMonth% Then 'Settled before current month
        StrxRow& = xRow&
        Do While (CellValue(aSheet, xRow&, iColAdd%) < cMonth%) And _
            (CellValue(aSheet, xRow&, iColDed%) < cMonth%) And _
            (xRow& <= dbBtmBorder& - 2)
            xRow& = xRow& + 1
        Loop
        If StrxRow& <= xRow& then
            RNM$ = cna$ & CStr(StrxRow&) & cjc$ & cna$ & CStr(xRow& - 1)
            aSheet.getCellRangeByName(RNM$).Rows.IsVisible = False
            If xRow& = dbBtmBorder& - 1 then
                Exit do
            Else
                xRow& = xRow& - 1
            End If
        End If
    elseif vColDed% = cMonth% Then 'Settled current month = nil balance
        SetCellValue aSheet, xRow&, Col_BalBeg%, lAmount&
        SetCellValue aSheet, xRow&, Col_Decre%, lAmount&
        SetCellFormula aSheet, xRow&, Col_BalEnd%, mFormula$
    elseif vColDed% > cMonth% Then 'Settled after current month
        SetCellValue aSheet, xRow&, Col_BalBeg%, lAmount&
        SetCellFormula aSheet, xRow&, Col_BalEnd%, mFormula$
        PostRAct xRow&, lAmount&, Col_BalEnd%
    End If
Elseif vColAdd% = cMonth% Then 'Accrued current month
SetCellValue aSheet, xRow&, Col_Incre%, lAmount&
if vColDed% < cMonth% Then 'Settled before current month = nil balance
    SetCellValue aSheet, xRow&, Col_BalBeg%, -lAmount&
elseif vColDed% = cMonth% Then 'Settled current month = nil balance
SetCellValue aSheet, xRow&, Col_Decre%, lAmount&
elseif vColDed% > cMonth% Then 'Settled after current month
Rem Do Nothing

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141 WkJV.Range(RNM$).EntireRow.Hidden = False
142 End Sub
143 Sub SortMW(ByVal iColPlus%, iColAdd%, iColDed%, iColPost%)
144 Dim oCellRange As Range
145 Dim xRow&, StrxRow&, Col_BalBeg%, Col_Incre%, Col_Decre%, Col_BalEnd%
146 Dim mFormula$
147 Dim lAmount&, vColAdd%, vColDed%, vEnd&
148 Col_BalBeg% = Col_Amount + 1 + iColPlus%
149 Col_Incre% = Col_Amount + 2 + iColPlus%
150 Col_Decre% = Col_Amount + 3 + iColPlus%
151 Col_BalEnd% = Col_Amount + 4 + iColPlus%
152 xRow& = CNRow% + 2
153 ClearRange aSheet, 3, Col_BalBeg%, dbBtmBorder& - 2, Col_BalEnd% + 2
154 RNM$ = "$A$" & CStr(CNRow% + 2) & "-";
155 RNM$ = RNM$ & CAlpha(Col_BalEnd% + 4) & "$" & CStr(dbBtmBorder& - 2)
156 Set oCellRange= aSheet.Range(RNM$)
157 oCellRange.EntireRow.Hidden = False
158 SelectCell xRow&, 1
159 SelectCell 3, Col_Descr% + 1
160 ActiveWindow.FreezePanes = True
161 Rem ----- (First step to sort in the order of PaidMo / other keys are irrelevant) -----
162 If aSName$ = "MW" Then
163     SortPara oCellRange, KeyMW1, KeyMW2, KeyMW3 'Defined in VZ
164 Elseif aSName$ = "AP" Then
165     SortPara oCellRange, KeyAP1, KeyAP2, KeyAP3 'Defined in VZ
166 Elseif aSName$ = "AR" Then
167     SortPara oCellRange, KeyAR1, KeyAR2, KeyAR3 'Defined in VZ
168 End If
169 Rem -----
170 Do While xRow& <= dbBtmBorder& - 2
171 lAmount& = CellValue(aSheet, xRow&, iColPost%)
172 mFormula$ = "=RC[-3]+RC[-2]-RC[-1]"
173
174 vColAdd% = CellValue(aSheet, xRow&, iColAdd%)
175 vColDed% = CellValue(aSheet, xRow&, iColDed%)
176 SelectCell xRow&, Col_BalBeg%
177 If vColAdd% < cMonth% Then 'Accrued before current month
178     if vColDed% < cMonth% Then 'Settled before current month
179         StrxRow& = xRow&
180         Do While (CellValue(aSheet, xRow&, iColAdd%) < cMonth%) And _
181             (CellValue(aSheet, xRow&, iColDed%) < cMonth%) And _
182             (xRow& <= dbBtmBorder& - 2)
183             xRow& = xRow& + 1
184         Loop
185         If StrxRow& <= xRow& Then
186             RNM$ = "$A$" & CStr(StrxRow&) & "-$A$" & CStr(xRow& - 1)
187             aSheet.Range(RNM$).EntireRow.Hidden = True
188             If xRow& = dbBtmBorder& - 1 Then
189                 Exit Do
190             Else
191                 xRow& = xRow& - 1
192             End If
193         End If
194     elseif vColDed% = cMonth% Then 'Settled current month = nil balance
195         SetCellValue aSheet, xRow&, Col_BalBeg%, lAmount&
196         SetCellValue aSheet, xRow&, Col_Decre%, lAmount&
197         SetCellFormula aSheet, xRow&, Col_BalEnd%, mFormula$
198     elseif vColDed% > cMonth% Then 'Settled after current month
199         SetCellValue aSheet, xRow&, Col_BalBeg%, lAmount&
200         SetCellFormula aSheet, xRow&, Col_BalEnd%, mFormula$
201         PostRAct xRow&, lAmount&, Col_BalEnd%
202     End If
203 Elseif vColAdd% = cMonth% Then 'Accrued current month
204     SetCellValue aSheet, xRow&, Col_Incre%, lAmount&
205     If vColDed% < cMonth% Then 'Settled before current month = nil balance
206         SetCellValue aSheet, xRow&, Col_BalBeg%, -lAmount&
207     elseif vColDed% = cMonth% Then 'Settled current month = nil balance
208         SetCellValue aSheet, xRow&, Col_Decre%, lAmount&
209     elseif vColDed% > cMonth% Then 'Settled after current month
210     Rem Do Nothing

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        PostRAct xRow&, lAmount&, Col_BalEnd%
    end if
    SetCellFormula aSheet, xRow&, Col_BalEnd%, mFormula$
    Elseif vColAdd% > cMonth% Then 'Accrued after current month
    if vColDed% > cMonth% Then 'Settled after current month
        StrxRow& = xRow&
        Do While CellValue(aSheet, xRow&, iColAdd%) > cMonth% And _
            CellValue(aSheet, xRow&, iColDed%) > cMonth% And _
                xRow& <= dbBtmBorder& - 2
            xRow& = xRow& + 1
        Loop
        If StrxRow& <= xRow& then
            RNM$ = cna$ & CStr(StrxRow&) & cjc$ & cna$ & CStr(xRow& - 1)
            aSheet.getCellRangeByName(RNM$).Rows.IsVisible = False
            if xRow& = dbBtmBorder& - 1 then
                Exit do
            else
                xRow& = xRow& - 1
            end if
        End If
    elseif vColDed% < cMonth% Then 'Settled before current month
        SetCellValue aSheet, xRow&, Col_BalBeg%, -lAmount&
        SetCellFormula aSheet, xRow&, Col_BalEnd%, mFormula$
        PostRAct xRow&, -lAmount&, Col_BalEnd%
    elseif vColDed% = cMonth% Then 'Settled current month
        SetCellValue aSheet, xRow&, Col_Decre%, lAmount&
        SetCellFormula aSheet, xRow&, Col_BalEnd%, mFormula$
        PostRAct xRow&, -lAmount&, Col_BalEnd%
    end if
End If
xRow& = xRow& + 1
Loop
RNM$ = cna$ & CStr(dbBtmBorder& - 1) & cjc$ & cna$ & CStr(dbBtmBorder& + 2)
aSheet.getCellRangeByName(RNM$).Rows.IsVisible = True
aController.ActiveSheet = WkBK
aController.ActiveSheet = aSheet
End Sub
Sub SortLN(ByVal strtRow%)
    dim aSortFields(2) As New com.sun.star.util.SortField
    dim aSortDesc(5) As New com.sun.star.beans.PropertyValue
    dim aLocale As New com.sun.star.lang.Locale
    dim oSortRange as object, LNEndRow&
    aLocale.Language = "ja" 'Japanese
    aLocale.Country = "JP" 'JAPAN
    LNEndRow& = LNEndLN(4)
    Rem ===(Note that dbBtmBorder in Lense row is counted on a one base)=====
    RNM$ = cna$ & CStr(strtRow%) & cjc$ & Calpha(10+NumDpt) & Cstr(LNEndRow&)
    Set oSortRange= WkLN.getCellRangeByName(RNM$)
    Rem -----
    aSortFields(0).Field = 3
    aSortFields(0).SortAscending = True
    AsortFields(1).Field = 1
    AsortFields(1).SortAscending = True
    AsortFields(2).Field = 0
    AsortFields(2).SortAscending = True
    aSortDesc(0).Name = "SortFields"
    aSortDesc(0).Value = aSortFields()
    aSortDesc(1).Name = "ContainsHeader"
    aSortDesc(1).Value = false
    aSortDesc(2).Name = "IsCaseSensitive"
    aSortDesc(2).Value = False
    aSortDesc(3).Name = "IsSortColumns"
    aSortDesc(3).Value = False
    aSortDesc(4).Name = "CollatorLocale"
    aSortDesc(4).Value = aLocale
    aSortDesc(5).Name = "CollatorAlgorithm"
    aSortDesc(5).Value = "charset"
    oSortRange.sort( aSortDesc() )
End Sub
Sub SortPara(ByVal oSortRange as object, key0%, key1%, key2%)

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211         PostRAct xRow&, lAmount&, Col_BalEnd%
212     End If
213     SetCellFormula aSheet, xRow&, Col_BalEnd%, mFormula$
214     Elseif vColAdd% > cMonth% Then 'Accrued after current month
215     If vColDed% > cMonth% Then 'Settled after current month
216         StrxRow& = xRow&
217         Do While CellValue(aSheet, xRow&, iColAdd%) > cMonth% And _
218             CellValue(aSheet, xRow&, iColDed%) > cMonth% And _
219                 xRow& <= dbBtmBorder& - 2
220             xRow& = xRow& + 1
221         Loop
222         If StrxRow& <= xRow& Then
223             RNM$ = "$A$" & CStr(StrxRow&) & "$A$" & CStr(xRow& - 1)
224             aSheet.Range(RNM$).EntireRow.Hidden = True
225             If xRow& = dbBtmBorder& - 1 Then
226                 Exit Do
227             Else
228                 xRow& = xRow& - 1
229             End If
230         End If
231     Elseif vColDed% < cMonth% Then 'Settled before current month
232         SetCellValue aSheet, xRow&, Col_BalBeg%, -lAmount&
233         SetCellFormula aSheet, xRow&, Col_BalEnd%, mFormula$
234         PostRAct xRow&, -lAmount&, Col_BalEnd%
235     Elseif vColDed% = cMonth% Then 'Settled current month
236         SetCellValue aSheet, xRow&, Col_Decre%, lAmount&
237         SetCellFormula aSheet, xRow&, Col_BalEnd%, mFormula$
238         PostRAct xRow&, -lAmount&, Col_BalEnd%
239     End If
240 End If
241 xRow& = xRow& + 1
242 Loop
243 RNM$ = "$A$" & CStr(dbBtmBorder& - 1) & "$A$" & CStr(dbBtmBorder& + 2)
244 aSheet.Range(RNM$).EntireRow.Hidden = False
245
246
247 End Sub
248 Sub SortLN(ByVal StrtRow%)
249
250
251
252     Dim oSortRange As Range, LNEndRow&
253
254
255     LNEndRow& = LNEndLN(4)
256     Rem ===(Note that dbBtmBorder in Lense row is counted on a one base)=====
257     RNM$ = "$A$" & CStr(StrtRow%) & "." & Calpha(10 + NumDpt) & CStr(LNEndRow&)
258     Set oSortRange = WkLN.Range(RNM$)
259     Rem -----
260     oSortRange.Sort key1:=Columns(4), Order1:=xlAscending, _
261     key2:=Columns(2), Order2:=xlAscending, _
262     Key3:=Columns(1), Order3:=xlAscending, _
263     Header:=xlGuess, OrderCustom:=1, MatchCase:=False, _
264     Orientation:=xlTopToBottom, SortMethod:=xlPinYin
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279 End Sub
280 Sub SortPara(ByVal oSortRange As Range, key0%, key1%, key2%)

```

```

dim aSortFields(2) As New com.sun.star.util.SortField
dim aSortDesc(5) As New com.sun.star.beans.PropertyValue
dim aLocale As New com.sun.star.lang.Locale
aLocale.Language = "ja" 'Japanese
aLocale.Country = "JP" 'JAPAN
aSortFields(0).Field = Key0%-1
aSortFields(0).SortAscending = True
aSortFields(1).Field = key1%-1
aSortFields(1).SortAscending = True
aSortFields(2).Field = key2%-1
aSortFields(2).SortAscending = True
aSortDesc(0).Name = "SortFields"
aSortDesc(0).Value = aSortFields()
aSortDesc(1).Name = "ContainsHeader"
aSortDesc(1).Value = false
aSortDesc(2).Name = "IsCaseSensitive"
aSortDesc(2).Value = False
aSortDesc(3).Name = "IsSortColumns"
aSortDesc(3).Value = False
aSortDesc(4).Name = "CollatorLocale"
aSortDesc(4).Value = aLocale
aSortDesc(5).Name = "CollatorAlgorithm"
aSortDesc(5).Value = "charset"
oSortRange.sort( aSortDesc() )
End Sub
Sub PostRAct(ByVal fRow&, ByVal fvEnd&, ByVal fCol_BalEnd%)
If aSName$="AP" Then
    If fvEnd& <> 0 Then
        If A_VAllocCD(CellValue(aSheet, fRow&, Col_ActCD)) Then
            SetCellValue aSheet, fRow&, fCol_BalEnd%+1, fvEnd&
        Else
            SetCellValue aSheet, fRow&, fCol_BalEnd%+2, fvEnd&
        End If
    End If
Elseif aSName$="AR" Then
    If fvEnd&>0 then
        SetCellValue aSheet, fRow&, fCol_BalEnd%+1, fvEnd&
    Elseif fvEnd&<0 Then
        SetCellValue aSheet, fRow&, fCol_BalEnd%+2, fvEnd&
    End If
End If
End Sub
Function LNEndLN%(ByVal StartLN%)
LNEndLN% = StartLN%
Do While Len(CellString(WkLN, LNEndLN%, 1)) > 0
    LNEndLN% = LNEndLN% + 1
Loop
If LNEndLN% -1 >=StartLN% then
    LNEndLN% = LNEndLN% -1
Else
    LNEndLN% = StartLN%
End If
End Function

```

```

281 oSortRange.Sort key1:=Columns(key0%), Order1:=xlAscending, _
282 key2:=Columns(key1%), Order2:=xlAscending, _
283 Key3:=Columns(key2%), Order3:=xlAscending, _
284 Header:=xlGuess, OrderCustom:=1, MatchCase:=False, _
285 Orientation:=xlTopToBottom, SortMethod:=xlPinYin
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305 End Sub
306 Sub PostRAct(ByVal fRow&, ByVal fvEnd&, ByVal fCol_BalEnd%)
307 If aSName$ = "AP" Then
308     If fvEnd& <> 0 Then
309         If A_VAllocCD(CellValue(aSheet, fRow&, Col_ActCD)) Then
310             SetCellValue aSheet, fRow&, fCol_BalEnd% + 1, fvEnd&
311         Else
312             SetCellValue aSheet, fRow&, fCol_BalEnd% + 2, fvEnd&
313         End If
314     End If
315 Elseif aSName$ = "AR" Then
316     If fvEnd& > 0 Then
317         SetCellValue aSheet, fRow&, fCol_BalEnd% + 1, fvEnd&
318     Elseif fvEnd& < 0 Then
319         SetCellValue aSheet, fRow&, fCol_BalEnd% + 2, fvEnd&
320     End If
321 End If
322 End Sub
323 Function LNEndLN%(ByVal StartLN%)
324 LNEndLN% = StartLN%
325 Do While Len(CellString(WkLN, LNEndLN%, 1)) > 0
326     LNEndLN% = LNEndLN% + 1
327 Loop
328 If LNEndLN% - 1 >= StartLN% Then
329     LNEndLN% = LNEndLN% - 1
330 Else
331     LNEndLN% = StartLN%
332 End If
333 End Function

```