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ABAP Development / ABAP Development and Programming

Tree ALV

Added by Ritesh Jha, last edited by Smruti Ranjan Mohanty on Oct 23, 2013

```
*&------*
1
2
  *& Report ZER14 AFUDC1
3
  *&
4
  *&--------*
5
  *&
6
  *&
7
  *&------*
8
  REPORT ZER14_AFUDC1 MESSAGE-ID ZER14.
9
  *&------
10
  *& DECLERATION OF TYPE POOL.
11
  *&
  *&-----*
12
  TYPE-POOLS SLIS.
13
  *&-------
14
15
  *& DECLERATION OF TABLES.
16
  *&
17
  18
  TABLES: AUFK, BKPF, PROJ, TJ02T, PRPS, JCDS, COEP.
19
  *&------
20
        TYPE DECLARATION
  *&-----*
21
  TYPES:
22
23
  *FOR aufk TABLE
24
     BEGIN OF T AUFK,
25
      AUFNR TYPE AUFK-AUFNR,
                    "ORDER NUMBER
26
      OBJNR TYPE AUFK-OBJNR,
                    "OBJECT NUMBER
27
      PSPEL TYPE AUFK-PSPEL,
                    "WBS ELEMENT
                    "OBJECT STATUS
28
      STAT TYPE JCDS-STAT,
29
      UDATE TYPE JCDS-UDATE,
                    "CREATION DATE
30
                    "INACTIVE STATUS
      INACT TYPE JCDS-INACT,
31
      UTIME TYPE JCDS-UTIME,
                    "TIME CHANGED
32
      CHGNR TYPE JCDS-CHGNR,
                    "Change number
33
      END OF T AUFK,
34
  *FOR PROJ TABLE
25
```

```
36
       BEGIN OF T_PROJ,
37
         PSPNR TYPE PROJ-PSPNR, "PROJECT DEFINATION (INITIAL)
         PSPID TYPE PROJ-PSPID, "PROJECT DEFINATION
38
         POST1 TYPE PROJ-POST1, "PROJECT DESCRIPTION
39
40
         PROFL TYPE PROJ-PROFL,
41
         END OF T_PROJ,
42
    *FOR PRPS TABLE
43
       BEGIN OF T PRPS,
          PSPNR TYPE PRPS-PSPNR, "WBS ELEMENT
44
          OBJNR TYPE PRPS-OBJNR, "OBJECT NUMBER
45
          PSPHI TYPE PRPS-PSPHI, "CURRENT NUMBER OF THE APPROPIATE OBJECT
46
47
           POST1 TYPE PRPS-POST1, "WBS DESCRIPTION
48
           END OF T PRPS,
49
    *FOR COEP TABLE
50
           BEGIN OF T_COEP,
             WTGBTR TYPE COEP-WTGBTR, "Total Value in Transaction Currency
51
             OBJNR TYPE COEP-OBJNR,
                                       "OBJECT NUMBER
52
53
             END OF T_COEP,
    *FOR COEP TABLE
54
55
          BEGIN OF T_COEP1,
             WTGBTR TYPE COEP-WTGBTR, "Total Value in Transaction Currency
56
             OBJNR TYPE COEP-OBJNR, "OBJECT NUMBER
57
58
             END OF T_COEP1,
    *FOR TJ02T TABLE
59
             BEGIN OF T TJ02T,
               ISTAT TYPE TJ02T-ISTAT, "System status
61
               TXT04 TYPE TJ02T-TXT04, "ndividual status of an object (short form)
62
               END OF T_TJ02T,
63
    * FOR T056P TABLE
64
65
               BEGIN OF T_T056P,
                 ZSOLL TYPE T056P-ZSOLL, "Interest Rate
66
                 DATAB TYPE T056P-DATAB, "Effective-From Date
67
68
                 END OF T T056P,
69
    * FOR BKPF TABLE
70
                  BEGIN OF T BKPF,
71
                   GJAHR TYPE BKPF,
72
                   END OF T_BKPF,
     *FOR FINAL INTERNAL TABLE
73
74
                 BEGIN OF T_FINAL,
75
                   AUFNR TYPE AUFK-AUFNR, "ORDER NUMBER
                   OBJNR TYPE AUFK-OBJNR, "OBJECT NUMBER
76
                   PSPEL TYPE AUFK-PSPEL, "WBS ELEMENT
77
78
                   POST1 TYPE PROJ-POST1, "PROJECT DESCRIPTION
                   POST11 TYPE PRPS-POST1, "WBS DESCRIPTION
79
                   STAT TYPE JCDS-STAT, "OBJECT STATUS
80
                   UDATE TYPE JCDS-UDATE, "CREATION DATE
81
                   INACT TYPE JCDS-INACT, "INACTIVE STATUS
82
                   UTIME TYPE JCDS-UTIME, "TIME CHANGED
83
                   PSPNR TYPE PRPS-PSPNR, "WBS ELEMENT
84
                   PSPHI TYPE PRPS-PSPHI, "CURRENT NUMBER OF THE APPROPIATE OBJECT
85
                   WTGBTR TYPE COEP-WTGBTR, "Total Value in Transaction Currency
86
87
                   WTGBTR1 TYPE COEP-WTGBTR, "Total Value in Transaction Currency
                                            "Interest Rate
                   ZSOLL TYPE T056P-ZSOLL,
88
```

```
89
                ZSOLL1 TYPE T056P-ZSOLL, "Interest Rate
90
                V VAR1 TYPE P DECIMALS 2, "FOR CALCULATION OF DEBT AMOUNT
                V_VAR2 TYPE P DECIMALS 2, "FOR CLCULATION OF EQUITY AMOUNT
91
                V_TOTAL TYPE P DECIMALS 2, " TOTAL OF V_VAR1 AND V_VAR2
92
               V_E_BAL TYPE P DECIMALS 2, "ENDING TOTAL
93
                END OF T_FINAL.
94
    *&amp:------*
95
96
             PARAMETERS FOR SELECTION-SCREEN
    *&--------*
97
98
             SELECTION SCREEN BLOCK FOR SELECTING VALUE
    *&-----*
99
100
    SELECTION-SCREEN BEGIN OF BLOCK B1 WITH FRAME TITLE TEXT-001.
101
    SELECT-OPTIONS:
102
                   S_PROFL FOR PROJ-PROFL,
103
                 S_PSPNR FOR PROJ-PSPNR.
104
    PARAMETERS:
105
               P_MONAT TYPE BKPF-MONAT OBLIGATORY,
               P_GJAHR TYPE BKPF-GJAHR OBLIGATORY,
106
107
               V_FM_DT TYPE SY-DATUM OBLIGATORY,
108
               V_TO_DT TYPE SY-DATUM OBLIGATORY.
109
    SELECTION-SCREEN END OF BLOCK B1.
    *&------*
110
111
            VARIABLE DECLARATIONS
    *&------*
112
113
    DATA: V ISTAT TYPE TJ02T-ISTAT,
          V_CAL TYPE P DECIMALS 2, " FOR CALCULATION OF wa_final-zsoll / 12
114
          V_CAL1 TYPE P DECIMALS 2. " FOR CALCULATION OF wa_final-zsoll1 / 12
115
116
    *&--------*
117
            CONTANTS DECLARATION
    *&-----*
118
    CONSTANTS : C_X(1) VALUE 'X', " value used to set X for a field
119
              C_REPID(40) VALUE SY-REPID, " report id
120
              C_TECO(4) VALUE 'TECO', " object status description
121
122
              C_CHECK(1) VALUE 'X'. " value used to set X for a field
123
    CLASS CL GUI COLUMN TREE DEFINITION LOAD.
124
    CLASS CL_GUI_CFW DEFINITION LOAD.
125
    DATA TREE1 TYPE REF TO CL_GUI_ALV_TREE.
    DATA MR_TOOLBAR TYPE REF TO CL_GUI_TOOLBAR.
126
127
    INCLUDE <ICON>.
128
    INCLUDE BCALV_TOOLBAR_EVENT_RECEIVER.
129
    INCLUDE BCALV_TREE_EVENT_RECEIVER.
130
    DATA: TOOLBAR EVENT RECEIVER TYPE REF TO LCL TOOLBAR EVENT RECEIVER.
    DATA: IT_FIELD TYPE LVC_T_FCAT, "Fieldcatalog
131
         OK CODE LIKE SY-UCOMM.
132
133
    *_____
134
             TNTFRNAI TABLE
    *_____
135
    DATA: IT_AUFK TYPE STANDARD TABLE OF T_AUFK, " INTERNAL TABLE OF TYPE I_AUFK
136
         IT_PROJ TYPE STANDARD TABLE OF T_PROJ, " INTERNAL TABLE OF TYPE I_PROJ
137
         IT_PRPS TYPE STANDARD TABLE OF T_PRPS, " INTERNAL TABLE OF TYPE I_PRPS
138
         IT_COEP TYPE STANDARD TABLE OF T_COEP, " INTERNAL TABLE OF TYPE I_COEP
139
140
         IT_COEP1 TYPE STANDARD TABLE OF T_COEP1, " INTERNAL TABLE OF TYPE I_COPE1
         IT_TJ02T TYPE STANDARD TABLE OF T_TJ02T, " INTERNAL TABLE OF TYPE I_TJ02P
141
```

```
142
        IT_T056P TYPE STANDARD TABLE OF T_T056P, " INTERNAL TABLE OF TYPE I_T056T
143
        IT_FINAL TYPE STANDARD TABLE OF T_FINAL, " INTERNAL TABLE OF TYPE I_FIANL
        IT_BKPF TYPE STANDARD TABLE OF T_BKPF,
144
        IT_FINAL1 TYPE STANDARD TABLE OF T_FINAL.
145
   *_____
146
147
          WORK AREA
    *----
148
149
   DATA: WA_AUFK TYPE T_AUFK,
       WA_PROJ TYPE T_PROJ,
150
151
       WA_PRPS TYPE T_PRPS,
       WA_COEP TYPE T_COEP,
152
153
       WA_COEP1 TYPE T_COEP1,
       WA TJ02T TYPE T TJ02T,
154
       WA_T056P TYPE T_T056P,
155
156
       WA_FINAL TYPE T_FINAL,
157
       WA_BKPF TYPE T_BKPF,
        WA_FINAL1 TYPE T_FINAL.
158
159
   START-OF-SELECTION.
    ********************
160
161
    * perform for passing the hard code value
    ********************
162
     * PERFORM HARD_CODE.
163
   ************************
164
165
             PERFORM for get the value
   *************************
166
    PERFORM GET_DATA.
167
   END-OF-SELECTION.
168
169
    CALL SCREEN 9000.
170
    *&--------*
171
    *&
            Module STATUS_9000 OUTPUT
    172
173
    *_____*
174
175
   MODULE STATUS 9000 OUTPUT.
176
    SET PF-STATUS 'ZMAIN'.
   * SET TITLEBAR 'xxx'.
177
178
    IF TREE1 IS INITIAL.
     PERFORM INIT_TREE.
179
    ENDIF.
180
181
    CALL METHOD CL GUI CFW=>FLUSH.
                     " STATUS_9000 OUTPUT
   ENDMODULE.
182
    *&-----*
183
184
        Form INIT TREE
    *&-----*
185
186
        text
187
    * --> p1
188
               text
189
    * <-- p2
               text
    *_____*
190
191
   FORM INIT_TREE .
192
     IT_FINAL1[] = IT_FINAL[] .
193
   * create fieldcatalog for structure sflight
194
     PERFORM BUILD_FIELDCATALOG.
```

```
195
     * create container for alv-tree
196
       DATA: ALV CONTAINOR(30) TYPE C,
197
            L_CUSTOM_CONTAINER TYPE REF TO CL_GUI_CUSTOM_CONTAINER.
    ALV_CONTAINOR = 'TREE1'.
198
199
      IF SY-BATCH IS INITIAL.
       CREATE OBJECT L_CUSTOM_CONTAINER
200
201
        EXPORTING
          CONTAINER_NAME = 'ALV_CONTAINOR'
202
        EXCEPTIONS
          CNTL_ERROR
                                     = 1
204
          CNTL_SYSTEM_ERROR
                                     = 2
205
206
            CREATE_ERROR
                                     = 3
           LIFETIME_ERROR
207
                                     = 4
            LIFETIME_DYNPRO_DYNPRO_LINK = 5.
208
       IF SY-SUBRC <> 0.
209
                                                             "#EC NOTEXT
210
        MESSAGE X208(00) WITH 'ERROR'.
      ENDIF.
212
     ENDIF.
213 * create tree control
214 CREATE OBJECT TREE1
215
      EXPORTING
        PARENT
                                    = L CUSTOM CONTAINER
216
                                = CL_GUI_COLUMN_TREE=>NODE_SEL_MODE_MULTIPLE
= SPACE
        NODE_SELECTION_MODE
217
       ITEM_SELECTION
NO_HTML_HEADER
NO_TOOLBAR
218
                                   = '''
219
                                    = '''
220
      EXCEPTIONS
221
       CNTL_ERROR
222
                                    = 1
        CNTL_SYSTEM_ERROR
223
                                   = 2
        CREATE_ERROR
                                    = 3
224
        LIFETIME_ERROR = 4
ILLEGAL_NODE_SELECTION_MODE = 5
225
226
         FAILED
227
228
         ILLEGAL COLUMN NAME = 7.
    IF SY-SUBRC <> 0.
229
       MESSAGE X208(00) WITH 'ERROR'.
                                                             "#EC NOTEXT
230
231
      ENDIF.
* create Hierarchy-header
       DATA L_HIERARCHY_HEADER TYPE TREEV_HHDR.
233
234
     PERFORM BUILD_HIERARCHY_HEADER CHANGING L_HIERARCHY_HEADER.
    * create info-table for html-header
235
       DATA: LT LIST COMMENTARY TYPE SLIS T LISTHEADER,
236
                      TYPE SDYDO_VALUE.
237
            L LOGO
238
    * perform build_comment using
239
                     lt_list_commentary
240
                     1 logo.
241
    * repid for saving variants
    DATA: LS_VARIANT TYPE DISVARIANT.
242
    LS VARIANT-REPORT = SY-REPID.
243
244
    BREAK SPCANDXX.
245
     REFRESH IT FINAL.
* create emty tree-control
247
       CALL METHOD TREE1->SET_TABLE_FOR_FIRST_DISPLAY
```

```
248
       EXPORTING
249
        IS_HIERARCHY_HEADER = L_HIERARCHY_HEADER
       IT_LIST_COMMENTARY = LT_LIST_COMMENTARY
250
251
        I_LOGO
                        = L_LOGO
        I_BACKGROUND_ID = 'ALV_BACKGROUND'
252
       I_SAVE
IS_VARIANT
                         = 'A'
253
                      = LS_VARIANT
254
      CHANGING
255
      256
257
258
    BREAK SPCANDXX.
259 * create hierarchy
    PERFORM CREATE HIERARCHY.
260
    * add own functioncodes to the toolbar
261
    PERFORM CHANGE_TOOLBAR.
262
263
   * register events
264
    * perform register_events.
    * adjust column width
265
    * call method tree1->COLUMN_OPTIMIZE.
266
    ENDFORM. " INIT TREE
267
    *&_____*
268
269
         Form build fieldcatalog
    *&_____*
270
271
272
    *_____*
273
    FORM BUILD FIELDCATALOG .
    DATA: WA_FIELD TYPE LVC_S_FCAT.
274
275
    * get fieldcatalog
    CALL FUNCTION 'LVC_FIELDCATALOG_MERGE'
276
277
      EXPORTING
       I_STRUCTURE_NAME = 'ZSTRUC'
278
     CHANGING
279
       CT_FIELDCAT = IT_FIELD.
280
281
     SORT IT_FIELD BY SCRTEXT_L.
282
    * change fieldcatalog
283
    * data: wa_field type lvc_s_fcat.
284
     LOOP AT IT_FIELD INTO WA_FIELD.
      CASE WA FIELD-FIELDNAME.
285
         WHEN 'POST1' OR 'POST11' OR 'AUFNR'.
286
287
         WA_FIELD-NO_OUT = 'X'.
          WA_FIELD-KEY = ''.
288
         WHEN 'WTGBTR' .
289
           WA FIELD-OUTPUTLEN = 20. " output length on screen
290
           WA FIELD-COLTEXT = TEXT-003. " header information
291
292
          WA_FIELD-DO_SUM = 'X'. " DOING SUM
293
       WHEN 'WTGBTR1' .
         WA_FIELD-OUTPUTLEN = 20. " output length on screen
294
           WA_FIELD-COLTEXT = TEXT-004. " header information
295
         WA FIELD-DO SUM = 'X'. " DOING SUM
296
       WHEN 'ZSOLL' .
297
          WA_FIELD-OUTPUTLEN = 20. " output length on screen
298
299
           WA FIELD-COLTEXT = TEXT-005. " header information
300
           WA FIELD-DO SUM = 'X'.
                                  " DOING SUM
```

```
301
        WHEN 'ZSOLL1'.
        WA_FIELD-OUTPUTLEN = 20. " output length on screen
302
          WA_FIELD-COLTEXT = TEXT-006. " header information
303
          WA_FIELD-DO_SUM = 'X'. " DOING SUM
304
305
        WHEN 'V VAR1' .
          WA_FIELD-OUTPUTLEN = 20. " output length on screen
306
          WA FIELD-COLTEXT = TEXT-007. " header information
307
          WA_FIELD-DO_SUM = 'X'. " DOING SUM
308
        WHEN 'V VAR2' .
309
          WA_FIELD-OUTPUTLEN = 20. " output length on screen
310
          WA FIELD-COLTEXT = TEXT-008. " header information
311
          WA_FIELD-DO_SUM = 'X'. " DOING SUM
312
        WHEN 'V TOTAL' .
313
        WA_FIELD-OUTPUTLEN = 20. " output length on screen
314
         WA_FIELD-COLTEXT = TEXT-009. " header information
315
         WA_FIELD-DO_SUM = 'X'. " DOING SUM
316
     WHEN 'V_E_BAL' .
317
        WA FIELD-OUTPUTLEN = 20. " output length on screen
318
          WA_FIELD-COLTEXT = TEXT-010. " header information
319
         WA_FIELD-DO_SUM = 'X'. " DOING SUM
320
     ENDCASE.
321
     MODIFY IT FIELD FROM WA FIELD.
322
323
   ENDLOOP.
                         "build_fieldcatalog
    ENDFORM..
324
    *&amp:------*
325
326
           Form BUILD_HIERARCHY_HEADER
    *&-----*
327
328
          text
    *_____*
329
330
        <--P_L_HIERARCHY_HEADER text
    *_____*
331
332
    FORM BUILD_HIERARCHY_HEADER CHANGING P_HIERARCHY_HEADER TYPE TREEV_HHDR.
    P_HIERARCHY_HEADER-HEADING = 'Business Segment'. "#EC NOTEXT
333
334
    P HIERARCHY HEADER-TOOLTIP =
335
                      'This is the Hierarchy Header !'. "#EC NOTEXT
   P_HIERARCHY_HEADER-WIDTH = 30.
336
337
    P_HIERARCHY_HEADER-WIDTH_PIX = ''.
                 " BUILD_HIERARCHY_HEADER
338
    *&-----*
339
340
        Form BUILD_COMMENT
    *&-----*
341
342
         text
    *-----*
343
344
         -->P LT LIST COMMENTARY text
345
        -->P_L_LOGO text
    *_____*
346
347
    FORM BUILD_COMMENT USING
    PT_LIST_COMMENTARY TYPE SLIS_T_LISTHEADER
348
        P LOGO TYPE SDYDO VALUE.
349
350
   DATA: LS_LINE TYPE SLIS_LISTHEADER.
351
352
   * LIST HEADING LINE: TYPE H
353
     CLEAR LS_LINE.
```

```
LS_LINE-TYP = 'H'.
354
355
    * LS LINE-KEY: NOT USED FOR THIS TYPE
    LS_LINE-INFO = 'ALV-tree-demo: flight-overview'. "#EC NOTEXT
356
     APPEND LS_LINE TO PT_LIST_COMMENTARY.
357
358
    * STATUS LINE: TYPE S
     CLEAR LS_LINE.
359
360
    LS LINE-TYP = 'S'.
                                                      "#EC NOTEXT
361
     LS_LINE-KEY = 'valid until'.
362 LS LINE-INFO = 'January 29 1999'.
                                                      "#EC NOTEXT
363
    APPEND LS_LINE TO PT_LIST_COMMENTARY.
364
   LS_LINE-KEY = 'time'.
365
    LS_LINE-INFO = '2.00 pm'.
                                                      "#EC NOTEXT
     APPEND LS LINE TO PT LIST COMMENTARY.
366
    * ACTION LINE: TYPE A
367
368
     CLEAR LS_LINE.
369
     LS LINE-TYP = 'A'.
370
   * LS_LINE-KEY: NOT USED FOR THIS TYPE
    LS_LINE-INFO = 'actual data'.
                                                      "#EC NOTEXT
371
372
    APPEND LS_LINE TO PT_LIST_COMMENTARY.
373
    P_LOGO = 'ENJOYSAP_LOGO'.
                           " BUILD COMMENT
374
    ENDFORM.
    *&-----*
375
    *& Form CREATE_HIERARCHY
376
    *&-----*
377
378
379
    *-----*
    * --> p1
380
                  text
381
    * <-- p2
                  text
382
    *_____*
383
    FORM CREATE_HIERARCHY .
384
    * add data to tree
385
    DATA: L_PSPNR_KEY TYPE LVC_NKEY,
           L PSPNR1 KEY TYPE LVC NKEY,
386
387
           L LAST KEY TYPE LVC NKEY.
388
    SORT IT FINAL1 BY POST1 POST11 AUFNR.
389
     LOOP AT IT_FINAL1 INTO WA_FINAL1.
390
      ON CHANGE OF WA_FINAL1-POST1.
         PERFORM ADD_PSPNR_LINE USING WA_FINAL1
391
                                    1.1
392
393
                             CHANGING L_PSPNR_KEY.
      ENDON.
394
395
       ON CHANGE OF WA FINAL1-POST11.
396
       PERFORM ADD PSPNR1 LINE USING
                                    WA_FINAL1
397
                                    L_PSPNR_KEY
                             CHANGING L_PSPNR1_KEY.
398
399
      ENDON.
400
      PERFORM ADD_COMPLETE_LINE USING WA_FINAL1
401
                                     L_PSPNR1_KEY
402
                              CHANGING L_LAST_KEY.
403
      CLEAR WA_FINAL1.
404
     ENDLOOP.
405
    * calculate totals
406
      CALL METHOD TREE1->UPDATE CALCULATIONS.
```

```
407
   * this method must be called to send the data to the frontend
    CALL METHOD TREE1->FRONTEND_UPDATE.
408
409
   ENDFORM.
                    " CREATE_HIERARCHY
   *&-----*
410
411
   *&
          Form GET_DATA
   *&-----*
412
413
   *_____*
414
415
   * --> p1
             text
416
   * <-- p2
              text
   *_____*
417
418
   FORM GET_DATA .
   *&-----*
419
420
     QUERY TO select ISTAT FROM TJ02T INTO IT_TJ02T
   *&-----*
421
422
    SELECT SINGLE
423
    ISTAT
    FROM TJ02T
424
425
    INTO V_ISTAT
    WHERE
426
427
    SPRAS = SY-LANGU AND TXT04 = C_TECO.
428
   IF SY-SUBRC <> 0.
429
    MESSAGE E000.
430
    ENDIF.
   *&-----*
431
432
     QUERY TO select PSPNR PSPID FROM PROJ INTO IT_PROJ.
433
   *&amp:-----*
434
    SELECT
435
     PSPNR
436
   * PSPID
    POST1
437
    FROM PROJ
438
    INTO TABLE IT PROJ
439
440
    WHERE
    PSPNR IN S_PSPNR
441
    AND PROFL IN S_PROFL.
442
443
    IF SY-SUBRC <> 0.
444
     MESSAGE E001.
445
    ENDIF.
446
   *&--------*
447
     QUERY TO select PSPNR OBJNR PSPHI FROM PRPS INTO IT_PRPS.
   *&amp:-----*
448
449
    SELECT
450
     PSPNR
451
     OBJNR
    PSPHI
452
453
   * PSPID
454
    POST1
    FROM PRPS
455
456
    INTO TABLE IT_PRPS
    FOR ALL ENTRIES IN IT_PROJ
457
458
    WHERE PSPHI = IT_PROJ-PSPNR.
459
    IF SY-SUBRC <> 0 .
```

```
460
       MESSAGE E002.
461
     ENDIF.
    *&-----*
462
463
       QUERY TO select AUFNR OBJNR STAT UDAT INACT UTIME FROM AUFK, JCDS INTO IT_AUFK.
    *&-----*
464
465
     SELECT
466
      A~AUFNR
467
      A~OBJNR
      A~PSPEL
468
469
     B~STAT
470
     B~UDATE
471
      B~INACT
472
      B~UTIME
473
     B~CHGNR
474
      FROM
475
      AUFK AS A INNER JOIN JCDS AS B
476
      ON A~OBJNR = B~OBJNR
      INTO TABLE IT_AUFK
477
478
       FOR ALL ENTRIES IN IT_PRPS
479
       WHERE A~PSPEL = IT_PRPS-PSPNR AND
           B \sim STAT = V_ISTAT AND
480
481
           B~UDATE BETWEEN V_FM_DT AND V_TO_DT
482
           AND B~INACT <> C_X.
     IF SY-SUBRC <> 0 .
483
484
      MESSAGE E003.
485
     ENDIF.
    *&-----*
486
487
       QUERY TO select WTGBTR FROM COEP INTO IT_COEP.
    *&-----*
488
489
     SELECT
      WTGBTR
490
491
     FROM COEP
     INTO TABLE IT COEP
492
493
      FOR ALL ENTRIES IN IT_PRPS
494
495
          GJAHR = P_GJAHR AND OBJNR = IT_PRPS-OBJNR.
496
     IF SY-SUBRC <> 0 .
497
      MESSAGE E004.
498
     ENDIF.
    *&-----*
499
500
       QUERY TO select WTGBTR FROM COEP INTO IT_COEP.
    *&-----*
501
502
     SELECT
503
      WTGBTR
504
      OBJNR
505
     FROM COEP
     INTO TABLE IT_COEP1
506
     FOR ALL ENTRIES IN IT_PRPS
507
508
509
     GJAHR = P_GJAHR AND OBJNR = IT_PRPS-OBJNR.
510
     IF SY-SUBRC <> 0 .
511
       MESSAGE E005.
512
     ENDIF.
```

```
513
    *&--------*
514
        QUERY TO select ZSOLL FROM T056P INTO IT T056P.
    *&-----*
515
516
     SELECT
517
       ZSOLL
       FROM T056P
518
519
      INTO TABLE IT T056P
520
      WHERE REFERENZ = 'ZNWN DEBT' .
     IF SY-SUBRC <> 0 .
521
522
      MESSAGE E006.
523
     ENDIF.
    *&-----*
524
525
        QUERY TO select ZSOLL FROM T056P INTO IT T056P.
    *&-----*
526
527
     SELECT
528
        ZSOLL
529
       FROM T056P
      INTO TABLE IT_T056P
530
531
      WHERE REFERENZ = 'ZNWNEQUITY' .
532
     IF SY-SUBRC <> 0 .
533
      MESSAGE E007.
    ENDIF.
534
535
    BREAK SPCANDXX.
    LOOP AT IT PRPS INTO WA PRPS.
536
537
      WA FINAL-PSPNR = WA PRPS-PSPNR.
538
       WA_FINAL-OBJNR = WA_PRPS-OBJNR.
       WA_FINAL-PSPHI = WA_PRPS-PSPHI.
539
      WA_FINAL-POST11 = WA_PRPS-POST1.
540
541
       READ TABLE IT_PROJ INTO WA_PROJ WITH KEY PSPNR = WA_PRPS-PSPNR.
       IF SY-SUBRC = 0.
542
543
         WA_FINAL-POST1 = WA_PROJ-POST1.
544
       ELSE.
        MESSAGE E003.
545
546
      ENDIF.
547
      READ TABLE IT AUFK INTO WA AUFK WITH KEY PSPEL = WA PRPS-PSPNR.
      IF SY-SUBRC = 0.
548
549
         WA_FINAL-AUFNR = WA_AUFK-AUFNR.
         WA_FINAL-UDATE = WA_AUFK-UDATE.
550
         WA_FINAL-INACT = WA_AUFK-INACT.
551
552
         WA_FINAL-UTIME = WA_AUFK-UTIME.
553
        ELSE.
554
         MESSAGE E003.
555
      READ TABLE IT COEP INTO WA COEP WITH KEY OBJNR = WA PRPS-OBJNR.
556
557
       IF SY-SUBRC = 0.
558
         WA_FINAL-WTGBTR = WA_COEP-WTGBTR.
      ELSE.
559
560
        MESSAGE E003.
      ENDIF.
561
562
      READ TABLE IT_COEP1 INTO WA_COEP1 WITH KEY OBJNR = WA_PRPS-OBJNR.
563
       IF SY-SUBRC = 0.
564
         WA_FINAL-WTGBTR1 = WA_COEP1-WTGBTR.
565
        ELSE.
```

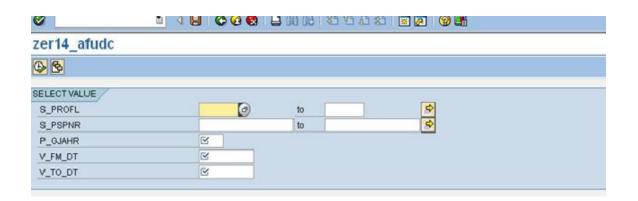
```
566
          MESSAGE E003.
567
        ENDIF.
        WA_FINAL-ZSOLL = WA_T056P-ZSOLL.
568
        APPEND WA_FINAL TO IT_FINAL.
                                                              "append wa_final into it_final
569
570
        LOOP AT IT_FINAL INTO WA_FINAL.
          V_CAL = WA_FINAL-ZSOLL / 12.
571
          V CAL1 = WA FINAL-ZSOLL1 / 12 .
572
          \label{eq:wa_final-wtgbtr} WA\_FINAL-V\_VAR1 = ( WA\_FINAL-WTGBTR ( V\_CAL ) + ( WA\_FINAL-WTGBTR1 ) ( V\_CAL / 2 ) \\
573
          WA_FINAL-V_VAR2 = ( WA_FINAL-WTGBTR ( V_CAL1 ) + ( WA_FINAL-WTGBTR1 ) ( V_CAL1 ) /
574
          WA_FINAL-V_TOTAL = ( WA_FINAL-V_VAR1 + WA_FINAL-V_VAR2 ).
575
          WA_FINAL-V_E_BAL = (WA_FINAL-WTGBTR WA_FINAL-WTGBTR1 WA_FINAL-V_TOTAL).
576
577
          MODIFY IT_FINAL FROM WA_FINAL INDEX SY-TABIX.
578
        ENDLOOP.
      ENDLOOP.
579
                              " GET_DATA
580
     ENDFORM.
     *&-----*
581
582
               Form CHANGE TOOLBAR
     *&------*
583
584
          text
585
586
     * --> p1
                    text
587
     * <-- p2
                   text
     *_____*
588
     FORM CHANGE TOOLBAR .
589
590
     * * get toolbar control
591
     CALL METHOD TREE1->GET_TOOLBAR_OBJECT
592
        IMPORTING
593
          ER_TOOLBAR = MR_TOOLBAR.
594
      CHECK NOT MR_TOOLBAR IS INITIAL.
595
    * add seperator to toolbar
      CALL METHOD MR_TOOLBAR->ADD_BUTTON
596
597
       EXPORTING
          FCODE = ''
598
          ICON = ''
599
600
          BUTN TYPE = CNTB BTYPE SEP
               = ''
601
602
          QUICKINFO = 'This is a Seperator'.
                                                          "#EC NOTEXT
     * add Standard Button to toolbar (for Delete Subtree)
603
      CALL METHOD MR_TOOLBAR->ADD_BUTTON
604
605
        EXPORTING
          FCODE = 'DELETE'
606
          ICON = ' (18)'
607
608
          BUTN_TYPE = CNTB_BTYPE_BUTTON
                  = ""
609
          TEXT
610
          QUICKINFO = 'Delete subtree'.
                                                          "#EC NOTEXT
611
     * add Dropdown Button to toolbar (for Insert Line)
      CALL METHOD MR_TOOLBAR->ADD_BUTTON
612
        EXPORTING
613
          FCODE = 'INSERT_LC'
614
          ICON = ' (17)'
615
          BUTN TYPE = CNTB BTYPE DROPDOWN
616
                  = '''
617
618
          QUICKINFO = 'Insert Line'.
                                                          "#EC NOTEXT
```

```
619
   * set event-handler for toolbar-control
620
     CREATE OBJECT TOOLBAR EVENT RECEIVER.
621
     SET HANDLER TOOLBAR_EVENT_RECEIVER->ON_FUNCTION_SELECTED
622
                                             FOR MR_TOOLBAR.
     SET HANDLER TOOLBAR_EVENT_RECEIVER->ON_TOOLBAR_DROPDOWN
623
624
                                            FOR MR_TOOLBAR.
    ENDFORM.
                         " CHANGE TOOLBAR
625
    *&-----*
626
627
           Form ADD PSPNR LINE
    *&-----*
628
629
         text
    *_____*
630
        -->P WA FINAL text
631
        -->P 0958 text
632
        <--P_L_PSPNR_KEY text
633
    *-----*
634
    FORM ADD_COMPLETE_LINE USING WA_FINAL1 TYPE T_FINAL
635
                          P_RELAT_KEY TYPE LVC_NKEY
636
                    CHANGING P_NODE_KEY TYPE LVC_NKEY.
637
638
     DATA: L_NODE_TEXT TYPE LVC_VALUE. ",
          wa_final2 LIKE it_final.
639
   * set item-layout
640
641
    DATA: LT_ITEM_LAYOUT TYPE LVC_T_LAYI,
          LS ITEM LAYOUT TYPE LVC S LAYI.
642
643
   LS_ITEM_LAYOUT-T_IMAGE = ' (3P)'.
644
     LS_ITEM_LAYOUT-FIELDNAME = TREE1->C_HIERARCHY_COLUMN_NAME.
645
    LS ITEM LAYOUT-STYLE =
646
                      CL_GUI_COLUMN_TREE=>STYLE_INTENSIFD_CRITICAL.
647
     APPEND LS_ITEM_LAYOUT TO LT_ITEM_LAYOUT.
   * add node
648
     L_NODE_TEXT = WA_FINAL1-AUFNR.
649
650
   DATA: LS_NODE TYPE LVC_S_LAYN.
    LS_NODE-N_IMAGE = SPACE.
651
652
   LS_NODE-EXP_IMAGE = SPACE.
653
     CALL METHOD TREE1->ADD NODE
     EXPORTING
654
655
       I_RELAT_NODE_KEY = P_RELAT_KEY
       I_RELATIONSHIP = CL_GUI_COLUMN_TREE=>RELAT_LAST_CHILD
656
       I_NODE_TEXT = L_NODE_TEXT
657
       IS_OUTTAB_LINE = WA_FINAL1
658
       IS_NODE_LAYOUT = LS_NODE
659
     IT_ITEM_LAYOUT = LT_ITEM_LAYOUT
660
661
     IMPORTING
        E_NEW_NODE_KEY = P_NODE_KEY.
662
663
    ENDFORM.
                                " add_carrid_line
    *&-----*
664
665
             Form ADD_PSPNR1_LINE
    *&-----*
666
667
         text
668
    *____*
669 *
       -->P WA FINAL text
670 * -->P_L_PSPNR_KEY text
671 * <--P_L_PSPNR1_KEY text
```

```
672
     FORM ADD PSPNR1 LINE USING
673
                              WA_FINAL1 TYPE T_FINAL
674
                               P_RELAT_KEY TYPE LVC_NKEY
675
676
                      CHANGING P_NODE_KEY TYPE LVC_NKEY.
      DATA: L_NODE_TEXT TYPE LVC_VALUE. ",
677
            wa final2 type t final.
678
    * set item-layout
679
      DATA: LT_ITEM_LAYOUT TYPE LVC_T_LAYI,
680
681
           LS_ITEM_LAYOUT TYPE LVC_S_LAYI.
682
      LS_ITEM_LAYOUT-T_IMAGE = ' (3Y)'.
683
      LS_ITEM_LAYOUT-STYLE
                         CL GUI COLUMN TREE=>STYLE INTENSIFIED.
684
      LS_ITEM_LAYOUT-FIELDNAME = TREE1->C_HIERARCHY_COLUMN_NAME.
685
686
      APPEND LS_ITEM_LAYOUT TO LT_ITEM_LAYOUT.
687
    * add node
688
      L_NODE_TEXT = WA_FINAL1-POST11.
      DATA: RELAT TYPE INT4.
689
690
      RELAT = CL_GUI_COLUMN_TREE=>RELAT_LAST_CHILD.
691
      CALL METHOD TREE1->ADD NODE
      EXPORTING
692
693
         I_RELAT_NODE_KEY = P_RELAT_KEY
         I_RELATIONSHIP = RELAT
694
        I_NODE_TEXT = L_NODE_TEXT
IS_OUTTAB_LINE = WA_FINAL1
695
696
        IT_ITEM_LAYOUT = LT_ITEM_LAYOUT
697
       IMPORTING
698
         E_NEW_NODE_KEY = P_NODE_KEY.
699
                          " ADD_PSPNR1_LINE
700
    ENDFORM.
     *&-----*
701
             Form ADD_PSPNR_LINE
702
     *&-----*
703
704
           text
705
    *_____*
706
         -->P WA FINAL text
         -->P 0958 text
707
708
         <--P_L_PSPNR_KEY text
709
     *_____*
     FORM ADD_PSPNR_LINE USING WA_FINAL1 TYPE T_FINAL
710
711
                            P_RELAT_KEY TYPE LVC_NKEY
                      CHANGING P_NODE_KEY TYPE LVC_NKEY.
712
     DATA: L NODE TEXT TYPE LVC VALUE. ",
713
714
            wa_final2 TYPE t_final.
715
    * set item-layout
716
    DATA: LT_ITEM_LAYOUT TYPE LVC_T_LAYI,
717
           LS ITEM LAYOUT TYPE LVC S LAYI.
    LS_ITEM_LAYOUT-T_IMAGE = ' (3P)'.
718
      LS_ITEM_LAYOUT-FIELDNAME = TREE1->C_HIERARCHY_COLUMN_NAME.
719
720
      LS ITEM LAYOUT-STYLE =
721
                         CL_GUI_COLUMN_TREE=>STYLE_INTENSIFD_CRITICAL.
722
      APPEND LS ITEM LAYOUT TO LT ITEM LAYOUT.
723
      L NODE_TEXT = WA_FINAL1-POST1.
724
```

```
725
      DATA: LS_NODE TYPE LVC_S_LAYN.
726
      LS_NODE-N_IMAGE = SPACE.
      LS_NODE-EXP_IMAGE = SPACE.
727
    CALL METHOD TREE1->ADD_NODE
728
        EXPORTING
729
         I_RELAT_NODE_KEY = P_RELAT_KEY
730
        I_RELATIONSHIP = CL_GUI_COLUMN_TREE=>RELAT_LAST_CHILD
731
         I_NODE_TEXT = L_NODE_TEXT
732
        IS_OUTTAB_LINE = WA_FINAL1
733
        IS_NODE_LAYOUT = LS_NODE
IT_ITEM_LAYOUT = LT_ITEM_LAYOUT
734
735
736
        IMPORTING
         E_NEW_NODE_KEY = P_NODE_KEY.
737
                                      " add_carrid_line
738
    ENDFORM.
     *&------*
739
740
              Module USER_COMMAND_9000 INPUT
741
     *&-------*
742
          text
743
    MODULE USER_COMMAND_9000 INPUT.
744
745
    CASE OK_CODE.
746
      WHEN 'EXIT' OR 'BACK' OR 'CANC'.
747
         LEAVE PROGRAM.
748
        WHEN OTHERS.
749
         CALL METHOD CL GUI CFW=>DISPATCH.
750
      ENDCASE.
751
     CLEAR OK_CODE.
      CALL METHOD CL_GUI_CFW=>FLUSH.
752
                            " USER_COMMAND_9000 INPUT
     ENDMODULE.
```

SELECTION SCREEN



OUTPUT

\$ <u>4 M 2 1 </u>											
母 台 圖 図 □ E Business Segment		Current Charges	Debt AFUDC R	Equity AFUDC	Debt AFUDC A	Equity AFUDC	Total AFUDC	Ending Ba			
♥ 🗀 👺 PROJECT1	800,00	500,00	9,0000000	0,0000000	262,50	0,00	262,50	1.562,			
♥ 🔁 💹 WBS1	800,00	500,00	9,0000000	0,0000000	262,50	0,00	262,50	1.562,			
	200,00	100,00	3,0000000	0,0000000	62,50	0,00	62,50	362,			
ORD2	300,00	200,00	3,0000000	0,0000000	100,00	0,00	100,00	600,			
■ CORD3	300,00	200,00	3,0000000	0,0000000	100,00	0,00	100,00	600,			

1 Comment



Guest

Ritesh,

Thanks for showing your program. I want to build a simular ALV tree in a full screen mode. Could you descibe/show how your screen 900 looks like?

Richard meijn

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