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* Variable Definitions
*-----*

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DATA:

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lt_customer      TYPE STANDARD TABLE OF ty_customer,
ls_customer      TYPE ty_customer,
lt_cust_sales    TYPE STANDARD TABLE OF ty_cust_sales,
ls_cust_sales    TYPE ty_cust_sales,
lt_hier_info     TYPE ujn_t_hier_info,
ls_hier_info     LIKE LINE OF lt_hier_info,
lv_hier          TYPE uj_hier_id,
lt_hcust_sales   TYPE STANDARD TABLE OF ty_hcust_sales,
ls_hcust_sales   TYPE ty_hcust_sales,
lt_ucust_sales   TYPE STANDARD TABLE OF ty_ucust_sales,
ls_ucust_sales   TYPE ty_ucust_sales,
lt_salesorg      TYPE STANDARD TABLE OF ty_salesorg,
ls_salesorg      TYPE ty_salesorg,
lv_nodename      TYPE rsshnodename,
lt_result        TYPE STANDARD TABLE OF _ty_s_tg_1,
lv_record        TYPE n LENGTH 17,
lt_range         TYPE STANDARD TABLE OF ty_range,
ls_range         TYPE ty_range.

```

```

data: cAdded(1)   type c.

```

FIELD-SYMBOLS:

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<fs_result>      LIKE LINE OF lt_result,
<fs_hcust_sales> LIKE LINE OF lt_hcust_sales.

```

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*-----*
* Get the proper Hierarchy ID and then retrieve the Hierarchy Table
*-----*

```

\* Identify correct hierarchy ID from the Hierarchy master data table

```

SELECT SINGLE HIEID
FROM
  RSHIEDIR
  INTO
  lv_hier
WHERE
  IOBJNM   = '0CUST_SALES' AND
  objvers  = 'A'.

```

\* Now populate the Internal table with only those field that you need

```

SELECT *
FROM
  /bi0/hcust_sales
INTO CORRESPONDING FIELDS OF TABLE
  lt_hcust_sales
WHERE
  hieid   = lv_hier AND
  objvers = 'A'.

```

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*-----*

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\* We are only interest in Leaf Nodes (with no children)

```

* DELETE lt_hcust_sales WHERE childid <> ' '.

```

```

*-----*
*                               DATA PROCESSING                               *
*-----*

SORT lt_hcust_sales BY nodeid.
LOOP AT SOURCE_PACKAGE ASSIGNING <source_fields>.

    clear cAdded.
    CLEAR RESULT_FIELDS.
* Populate the initial fields
    RESULT_FIELDS-DIVISION      = <source_fields>-SPART.
    RESULT_FIELDS-DISTR_CHAN    = <source_fields>-VTWEG.
    RESULT_FIELDS-SALESORG      = <source_fields>-VKORG.
    RESULT_FIELDS-CUST_SALES    = <source_fields>-KUNNR.
    RESULT_FIELDS-ACCNT_ASGN    = <source_fields>-KTGRD.
    RESULT_FIELDS-CUST_CLA      = <source_fields>-KLABC.
    RESULT_FIELDS-CUST_GROUP    = <source_fields>-KDGRP.
    RESULT_FIELDS-CUST_GRP1     = <source_fields>-KVGR1.
    RESULT_FIELDS-CUST_GRP2     = <source_fields>-KVGR2.
    RESULT_FIELDS-CUST_GRP3     = <source_fields>-KVGR3.
    RESULT_FIELDS-CUST_GRP4     = <source_fields>-KVGR4.
    RESULT_FIELDS-CUST_GRP5     = <source_fields>-KVGR5.
    TRANSLATE <source_fields>-INCO1 TO UPPER CASE.
    TRANSLATE <source_fields>-INCO2 TO UPPER CASE.
    RESULT_FIELDS-INCOTERMS     = <source_fields>-INCO1.
    RESULT_FIELDS-INCOTERMS2    = <source_fields>-INCO2.
    RESULT_FIELDS-PLANT         = <source_fields>-VWERK.
    RESULT_FIELDS-PMNTTRMS      = <source_fields>-ZTERM.
    RESULT_FIELDS-SALES_DIST     = <source_fields>-BZIRK.
    RESULT_FIELDS-SALES_GRP      = <source_fields>-VKGRP.
    RESULT_FIELDS-SALES_OFF      = <source_fields>-VKBUR.
    RESULT_FIELDS-record        = <source_fields>-record.
*-----*
* Add the original record to the Temporary Table
*-----*
*     APPEND RESULT_FIELDS TO lt_result.
*-----*
* Start stepping up the Hierarchy
*-----*

CLEAR: lv_nodename.
CONCATENATE
    <source_fields>-SPART
    <source_fields>-VTWEG
    <source_fields>-VKORG
    <source_fields>-KUNNR
INTO
    lv_nodename.

* Get the Node Record from the Hierarchy table
READ TABLE lt_hcust_sales
    ASSIGNING
        <fs_hcust_sales>
    WITH KEY
        nodename = lv_nodename.

```

```

    IF ( SY-SUBRC = 0 ) and
        <fs_hcust_sales>-tlevel GE 2.

* Now step up through the Parent Node(s) until you get to the top
    WHILE sy-subrc = 0 AND <fs_hcust_sales>-tlevel GE 2.
* Step up to the Parent
    READ TABLE lt_hcust_sales
    ASSIGNING
        <fs_hcust_sales>
    WITH KEY
        nodeid = <fs_hcust_sales>-parentid
    BINARY SEARCH.

    IF sy-subrc = 0 AND <fs_hcust_sales>-tlevel EQ 2.
* Retrieve the Customer Number from the Node Name
    RESULT_FIELDS-/BIC/ZCUST_HL2 =
        <fs_hcust_sales>-nodename+8(10).
* Add the result to the Temporary Table
    APPEND RESULT_FIELDS TO lt_result.
*
    MODIFY lt_result FROM RESULT_FIELDS.
        cAdded = 'X'.

    ELSEIF sy-subrc = 0 AND <fs_hcust_sales>-tlevel EQ 3.
    RESULT_FIELDS-/BIC/ZCUST_HL3 =
        <fs_hcust_sales>-nodename+8(10).
* Add the result to the Temporary Table
    APPEND RESULT_FIELDS TO lt_result.
*
    MODIFY lt_result FROM RESULT_FIELDS.
        cAdded = 'X'.

    ELSEIF sy-subrc = 0 AND <fs_hcust_sales>-tlevel EQ 4.
    RESULT_FIELDS-/BIC/ZCUST_HL4 =
        <fs_hcust_sales>-nodename+8(10).
* Add the result to the Temporary Table
    APPEND RESULT_FIELDS TO lt_result.
*
    MODIFY lt_result FROM RESULT_FIELDS.
        cAdded = 'X'.

    ELSEIF sy-subrc = 0 AND <fs_hcust_sales>-tlevel EQ 5.
    RESULT_FIELDS-/BIC/ZCUST_HL5 =
        <fs_hcust_sales>-nodename+8(10).
* Add the result to the Temporary Table
    APPEND RESULT_FIELDS TO lt_result.
*
    MODIFY lt_result FROM RESULT_FIELDS.
        cAdded = 'X'.

    ELSEIF sy-subrc = 0 AND <fs_hcust_sales>-tlevel EQ 6.
    RESULT_FIELDS-/BIC/ZCUST_HL6 =
        <fs_hcust_sales>-nodename+8(10).
* Add the result to the Temporary Table
    APPEND RESULT_FIELDS TO lt_result.

```

