ZCL_CRM_TVARV_RETRIEVER Release 740

System

CDA

Class: ZCL CRM TVARV RETRIEVER

Status: Active

Attributes

Description: Variant values retriever

Instantiation: Public

Not final Not released

Fixed pt.arithmetic

Category: General Object Type

Package: ZPCABAP Original lang.: EN Created by: P000520 Created on: 29.12.2014 Last changed by: P000520 Last changed on: 29.12.2014

Attributes

Public attributes

Attrib. Cat

Description

Ref.

Type

Init. value

RVARI VNAM

AV_NAME Inst (read only) ABAP: Name of Variant Variable TYPE

Protected attribute

Attrib. Cat Description Ref. Type Init. value

AT_VALUES Inst Variant values TYPE CYT_TVARVC

Methods

Public methods CONSTRUCTOR

Description: CONSTRUCTOR

Instance mthd

Importing parameter

```
P NAME TYPE RVARI VNAM (ABAP: Name of Variant Variable)
          method CONSTRUCTOR.
            me->av_name = p_name.
          endmethod.
        GET SINGLE
        Description: Returns a related single value of this object.
        Instance mthd
        Importing parameter
          IM_VNAME TYPE STRING OPTIONAL (Name of a variable)
        Exporting parameter
          EX VALUE TYPE ANY (Value)
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          METHOD get single.
            DATA lv_search TYPE rvari_vnam.
            FIELD-SYMBOLS < lw value > TYPE tvarvc.
            IF me->at_values IS INITIAL.
             me->set attributes().
            ENDIF.
            IF im vname IS SUPPLIED.
              CONCATENATE me->av_name im_vname INTO lv_search SEPARATED
BY ' '.
             READ TABLE me->at values WITH KEY name = lv search
              ASSIGNING < lw value>.
              IF sy-subrc = 0.
               ex value = <lw value>-low.
              ENDIF.
            ELSE.
              READ TABLE me->at_values INDEX 1 ASSIGNING <1w_value>.
              IF sy-subrc = 0.
               ex_value = <lw_value>-low.
              ENDIF.
            ENDIF.
          ENDMETHOD.
        GET MULTIPLE
        Description: Returns the related range of values of this object.
        Instance mthd
        Importing parameter
          IM VNAME TYPE STRING OPTIONAL (Name of a variable)
```

```
Exporting parameter
          EXT VALUES TYPE ANY TABLE (Table holding a range of values)
          METHOD get_multiple.
            TYPES lyr tvarv TYPE RANGE OF tvarv val.
            DATA: lv search TYPE rvari vnam,
                  lr tvarv TYPE lyr tvarv,
                  lw tvarv TYPE LINE OF lyr_tvarv.
            FIELD-SYMBOLS < lw value > TYPE tvarvc.
            DEFINE lm append.
              lw tvarv-sign = <lw value>-sign.
              lw_tvarv-option = <lw_value>-opti.
              lw_tvarv-low = <lw_value>-low.
lw_tvarv-high = <lw_value>-high.
              APPEND lw_tvarv to lr_tvarv.
            END-OF-DEFINITION.
            IF me->at_values IS INITIAL.
              me->set attributes().
            ENDIF.
            IF im vname IS SUPPLIED.
              CONCATENATE me->av name im vname INTO lv search SEPARATED
BY ' '.
              LOOP AT me->at values ASSIGNING <1w value> WHERE name =
lv search.
                lm_append.
              ENDLOOP.
            ELSE.
              LOOP AT me->at values ASSIGNING <1w value>.
                lm append.
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              ENDLOOP.
            ENDIF.
            ext values = lr tvarv.
          ENDMETHOD.
        Protected methods
        GET DB
        Description: Returns a database mediator instance.
        Instance mthd
        Returning parameter
          VALUE(RO DB) TYPE REF TO OBJECT (Database mediator instance.)
```

```
METHOD get_db.
            DATA lo db TYPE REF TO lcl db.
            lo_db = NEW lcl_db().
            ro_db = lo_db.
            FREE lo db.
         ENDMETHOD.
        SET ATTRIBUTES
        Description: Retrieves the attributes of this object.
        Instance mthd
         METHOD set_attributes.
            DATA lo db TYPE REF TO lcl db.
            lo db ?= me->get db().
            TRY .
                lo_db->get_tvarvc_values( EXPORTING
                                            p_vname = me->av_name
                                          IMPORTING
                                            rt values = me->at values ).
             CATCH cx_sy_sql_error.
               FREE lo db. RETURN.
            ENDTRY.
            SORT me->at values.
            FREE lo db.
          ENDMETHOD.
        Redefined Methods
        Local Types
        *"* use this source file for any type of declarations (class
        "" definitions, interfaces or type declarations) you need for
        *"* components in the private section
        Local class definitions
        \star"\star use this source file for the definition and implementation of
        *"* local helper classes, interface definitions and type
        *"* declarations
____*
        * Specification structure:
        * .Classes:
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```

```
..OVERVIEW clause: A conceptual description of the class.
          .Methods and Procedures (Sub-routines):
            ..REQUIRES clause: states a precondition, e.g., a an
obligation on
                              the client (ie, the caller of the
method).
                              It?s a condition over the state in which
the
                              method is invoked. If the precondition
does not
                              hold, the implementation of the method is
free
                              to do anything (including not
terminating,
                              throwing an exception, returning
arbitrary
                              results, making arbitrary modifications,
etc).
            .. EFFECTS clause: states a postcondition, e.g., an
obligation on
                              the implementor of the method. If the
                              precondition holds for the invoking
state,
                              the method is obliged to obey the
postcondition,
                              by returning appropriate values,
                              throwing specified exceptions, modifying
or not
                              modifying objects, and so on.
            .. MODIFIES clause: identifies which objects or data
structures may
                             be modified.
       *_____
       * Class LCL DB
       * OVERVIEW: Objects of this class mediates database accesses. It
aims
                  to isolate this API from external dependencies, as
might
                   be desirable in tests.
                   The instances of this object are provided by the
protected
                   method GET DB of the main class,
ZCL CRM TVARV RETRIEVER.
                   By redefining the method GET DB one can provide
                   appropriated stubs, which must redefine the desired
                   methods of LCL DB, instead of accessing real
database
                   tables.
       *-----
       CLASS 1cl db DEFINITION.
         PUBLIC SECTION.
           METHODS get tvarvc values IMPORTING p vname
rvari vnam
                                    EXPORTING VALUE(rt values)
                                               TYPE
zcl crm tvarv retriever=>cyt tvarvc
```

```
RAISING cx_sy_sql_error.
       * Method GET_TVARVC_VALUES
       *-----
       * REQUIRES: The variant name must be provided.
       * EFFECTS.: If no related data is found, raises an exception of
type
                  CX SY SQL ERROR, otherwise returns a table holding
the
                  related variant content.
         -> P_VNAME ABAP: Name of Variant Variable. <- RT_VALUES Variant values.
       ENDCLASS.
       CLASS 1cl db IMPLEMENTATION.
         METHOD get_tvarvc_values.
           DATA lv vname TYPE rvari vnam.
           lv vname = p vname && '%'.
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           SELECT * FROM tvarvc
            INTO TABLE rt values
           WHERE name LIKE lv_vname.
           IF sy-subrc <> 0.
            RAISE EXCEPTION TYPE cx_sy_sql_error.
           ENDIF.
         ENDMETHOD.
       ENDCLASS.
       Macros
       *"* use this source file for any macro definitions you need
       *"* in the implementation part of the class
```

	Public attributes
1	Protected attribute
1	Methods
1	Public methods
1	CONSTRUCTOR GET SINGLE
1	GET_MULTIPLE
3	Protected methods
3	GET_DB
3	SET_ATTRIBUTES Redefined Methods
3	Redefined neemods
3	Local Types
3	Local class definitions
5	Macros

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