

Class: ZCL_TVAREV_RETRIEVER

Status: Active

Attributes

Description: TVAREV Retriever

Instantiation: Public

Not final

Not released

Fixed pt.arithmetic

Category: General Object Type

Package: ZBRFI

Original lang.: EN

Created by: ABAP

Created on: 11.03.2014

Last changed by: ABAP

Last changed on: 11.03.2014

Attribute

Public attributes

Attrib.	Cat	Description	Ref. Type	Init. value
AV_NAME	Inst (read only)	ABAP: Name of Variant Variable	TYPE RVARI_VNAM	

Protected attribute

Attrib.	Cat	Description	Ref. Type	Init. value
AT_VALUES	Inst	Table for TVARVC Structure	TYPE TVARVC_T	

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 single value of this object.

Instance mthd

Importing parameter

I_VNAME TYPE STRING OPTIONAL (Name of a variable.)

Exporting parameter

VALUE(EX_VALUE) TYPE ANY (Value.)

```

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 i_vname IS SUPPLIED.
    CONCATENATE av_name i_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 <lw_value>.
    IF sy-subrc = 0.
      ex_value = <lw_value>-low.
    ENDIF.
  ENDIF.
ENDMETHOD.

```

GET_MULTIPLE

Description: Returns the range of values of this object.

Instance mthd

Importing parameter

I_VNAME TYPE STRING OPTIONAL (Name of a variable.)

Exporting parameter

VALUE(EXT_VALUES) TYPE ANY TABLE (Table with the range of values of this object.)

```

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 i_vname IS SUPPLIED.
    CONCATENATE av_name i_vname INTO lv_search SEPARATED BY '_'.
    LOOP AT me->at_values ASSIGNING <lw_value> WHERE name = lv_search.
      lm_append.
    ENDLOOP.
  ELSE.
    LOOP AT me->at_values ASSIGNING <lw_value>.
      lm_append.
    ENDLOOP.
  ENDIF.
ENDMETHOD.

```

```

        ENDLOOP.
    ENDIF.
    ext_values = lr_tvarv.
ENDMETHOD.

```

Protected methods

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.

```

GET_DB

Description: Returns an database mediator.

Instance mthd

Returning parameter

VALUE(RO_DB) TYPE REF TO OBJECT (Database mediator.)

```

method GET_DB.
    DATA lo_db TYPE REF TO lcl_db.
    CREATE OBJECT lo_db.
    ro_db = lo_db.
    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

```

*** use this source file for the definition and implementation of
*** local helper classes, interface definitions and type
*** declarations
*-----*
* Class LCL_DB
* OVERVIEW: Objects of this class mediates database accesses. It aims

```

```

*          to isolate this development from external dependencies, as
*          might be desirable in tests.
*          The instances of this object is provided by the private
*          method GET_DB of the main class (ZCL_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 lcl_db DEFINITION.
  PUBLIC SECTION.
    METHODS get_tvarvc_values IMPORTING p_vname          TYPE rvari_vnam
                                EXPORTING value(rt_values) TYPE TVARVC_T
                                RAISING cx_sy_sql_error.
*-----*
* Method GET_TVARVC_VALUES
*-----*
* REQUIRES: The variant name must be provided.
* EFFECTS.: If no related data is found, returns exception type
*           CX_SX_SY_SQL_ERROR, otherwise returns the related variant
*           type and a table with the range of related values found in
*           tabel TVARVC.
*-----*
* -> P_VNAME      Name of Variant Variable.
* <- RT_VALUES    Collection of variant values.
*-----*
ENDCLASS.                                "lcl_db DEFINITION
*-----*
*           CLASS lcl_db IMPLEMENTATION
*-----*
*
*-----*
CLASS lcl_db IMPLEMENTATION.
  METHOD get_tvarvc_values.
    SELECT * FROM tvarvc
      INTO TABLE rt_values
    WHERE name LIKE p_vname.
    IF sy-subrc <> 0.
      RAISE EXCEPTION TYPE cx_sy_sql_error.
    ENDIF.
  ENDMETHOD.                            "get_tvarvc_values
ENDCLASS.                                "lcl_db IMPLEMENTATION

```

Macros

```

*** use this source file for any macro definitions you need
*** in the implementation part of the class

```

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