
Python

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CPAD FUNCTION

This function returns the passed string surrounded to the specified length with the specified character. If the string can not be centered exactly in the middle, the total length is reduced by one.

1.1 Syntax

```
PLUTIL.CPAD (  
  a_string IN VARCHAR2,  
  a_length IN NUMBER,  
  a_char   IN VARCHAR2)  
RETURN VARCHAR2;
```

1.2 Parameter

Parameter	Description
A_STRING	The string to surround by a character.
A_LENGTH	The total length of the returned expression.
A_CHAR	The character to surround the passed the string.

CURRENT_CHARSET FUNCTION

This function returns the current charset.

2.1 Syntax

```
PLUTIL.CURRENT_CHARSET  
RETURN VARCHAR2;
```


CURRENT_ISO_LANGUAGE FUNCTION

This function returns the current iso language (ISO-639).

3.1 Syntax

```
PLUTIL.CURRENT_ISO_LANGUAGE  
RETURN VARCHAR2;
```


CURRENT_ISO_LOCALE FUNCTION

This function returns the current ISO locale including language (ISO-639) and country (ISO-3166).

4.1 Syntax

```
PLUTIL.CURRENT_ISO_LOCALE  
RETURN VARCHAR2;
```


DATE_TO_UNIX_TIMESTAMP FUNCTION

This function converts a (UTC) date into the unix timestamp (number of seconds since the unix epoch time on January 1st, 1970).

5.1 Syntax

```
PLUTIL.DATE_TO_UNIX_TIMESTAMP (  
    a_date IN DATE)  
RETURN NUMBER;
```

5.2 Parameter

Parameter	Description
A_DATE	A date greater than January 1st, 1970.

DAYS_IN_MONTH FUNCTION

This function returns the number of days in the month.

6.1 Syntax

```
PLUTIL.DAYS_IN_MONTH (  
    a_month IN DATE)  
RETURN NUMBER;
```

6.2 Parameter

Parameter	Description
A_MONTH	The date to check.

DAYS_IN_YEAR FUNCTION (1)

This function returns the number of days in the year.

7.1 Syntax

```
PLUTIL.DAYS_IN_YEAR (  
    a_year IN DATE)  
RETURN NUMBER;
```

7.2 Parameter

Parameter	Description
A_YEAR	The date to check.

DAYS_IN_YEAR FUNCTION (2)

This function returns the number of days in the year.

8.1 Syntax

```
PLUTIL.DAYS_IN_YEAR (  
    a_year IN NUMBER)  
RETURN NUMBER;
```

8.2 Parameter

Parameter	Description
A_YEAR	The year to check.

FORMAT_BYTES_BINARY FUNCTION

This function formats the number of bytes. Base is 2.

9.1 Syntax

```
PLUTIL.FORMAT_BYTES_BINARY (  
    a_bytes  IN NUMBER)  
RETURN VARCHAR2;
```

9.2 Parameter

Parameter	Description
A_BYTES	The number of bytes.

FORMAT_BYTES_DECIMAL FUNCTION

This function formats the number of bytes. Base is 10.

10.1 Syntax

```
PLUTIL.FORMAT_BYTES_DECIMAL (  
    a_bytes  IN NUMBER)  
RETURN VARCHAR2;
```

10.2 Parameter

Parameter	Description
A_BYTES	The number of bytes.

FORMAT_SECONDS FUNCTION

This function formats the number of seconds.

11.1 Syntax

```
PLUTIL.FORMAT_SECONDS (  
    a_seconds IN NUMBER)  
RETURN VARCHAR2;
```

11.2 Parameter

Parameter	Description
A_SECONDS	The number of seconds.

HEX_TO_RGB FUNCTION

This function converts a hexadecimal color value into a RGB color value.

12.1 Syntax

```
PLUTIL.HEX_TO_RGB (  
    a_hex IN VARCHAR2)  
RETURN VARCHAR2;
```

12.2 Parameter

Parameter	Description
A_HEX	A valid hexadecimal color value.

IS_LEAP_YEAR FUNCTION (1)

This function checks if the date is a leap year or not.

13.1 Syntax

```
PLUTIL.IS_LEAP_YEAR (  
    a_year IN DATE)  
RETURN BOOLEAN;
```

13.2 Parameter

Parameter	Description
A_DATE	The date to check.

IS_LEAP_YEAR FUNCTION (2)

This function checks if the year is a leap year or not.

14.1 Syntax

```
PLUTIL.IS_LEAP_YEAR (  
    a_year IN PLS_INTEGER)  
RETURN BOOLEAN;
```

14.2 Parameter

Parameter	Description
A_YEAR	The year in the format YYYY.

REPLACE_MULTI FUNCTION (1)

Replace string '#1#', '#2#' ... '#n#' with element n from the collection.

15.1 Syntax

```
PLUTIL.REPLACE_MULTI (  
  a_string      IN  VARCHAR2,  
  a_replace_strings IN  SYS.DBMSOUTPUT_LINESARRAY)  
RETURN CLOB;
```

15.2 Parameter

Parameter	Description
A_STRING	A text with placeholders.
A_REPLACE_STRINGS	A list of replace strings.

REPLACE_MULTI FUNCTION (2)

Replace string '#1#', '#2#' ... '#n#' with element n from the collection.

16.1 Syntax

```
PLUTIL.REPLACE_MULTI (  
  a_string      IN  VARCHAR2,  
  a_replace_strings IN SYS.ORA_MINING_VARCHAR2_NT)  
RETURN VARCHAR2;
```

16.2 Parameter

Parameter	Description
A_STRING	A text with placeholders.
A_REPLACE_STRINGS	A list of replace strings.

RGB_TO_HEX FUNCTION

This function converts a RGB color value into a hexadecimal color value.

17.1 Syntax

```
PLUTIL.RGB_TO_HEX (  
  a_red   IN NUMBER,  
  a_green IN NUMBER,  
  a_blue  IN NUMBER)  
RETURN VARCHAR2;
```

17.2 Parameter

Parameter	Description
A_RED	A valid value between 0 and 255 for the red color.
A_GREEN	A valid value between 0 and 255 for the green color.
A_BLUE	A valid value between 0 and 255 for the blue color.

SPLIT_TO_LIST FUNCTION

This functions splits a string into a varray. Each element can have a length of max. 32767 chars.

18.1 Syntax

```
PLUTIL.SPLIT_TO_LIST (  
    a_string          IN VARCHAR2,  
    a_delimiter       IN VARCHAR2,  
    a_enclosure       IN VARCHAR2,  
    a_trim_enclosure  IN BOOLEAN)  
RETURN SYS.DBMSOUTPUT_LINESARRAY DETERMINISTIC;;
```

18.2 Parameter

Parameter	Description
A_STRING	A (character-delimited) text.
A_DELIMITER	One char length delimiter.
A_ENCLOSURE	An optional enclosure char.
A_TRIM_ENCLOSURE	Remove the enclosure from element if true.

SPLIT_TT FUNCTION

This functions splits a string into a nested table. Each element can have a length of max. 4000 chars.

19.1 Syntax

```
PLUTIL.SPLIT_TT (  
    a_string          IN VARCHAR2,  
    a_delimiter       IN VARCHAR2,  
    a_enclosure       IN VARCHAR2,  
    a_trim_enclosure  IN BOOL)  
RETURN SYS.ORA_MINING_VARCHAR2_NT DETERMINISTIC;;
```

19.2 Parameter

Parameter	Description
A_STRING	A (character-delimited) text.
A_DELIMITER	One char length delimiter.
A_ENCLOSURE	An optional enclosure char.
A_TRIM_ENCLOSURE	Remove the enclosure from element if 1.

UNIX_TIMESTAMP_TO_DATE FUNCTION

This function converts the unix timestamp (number of seconds since the unix epoch time on January 1st, 1970) to a valid (UTC) date.

20.1 Syntax

```
PLUTIL.UNIX_TIMESTAMP_TO_DATE (  
    a_unix_timestamp IN NUMBER)  
RETURN DATE;
```

20.2 Parameter

Parameter	Description
A_UNIX_TIMESTAMP	The number of seconds.