

DBMS_WARNING

The `DBMS_WARNING` package provides a way to manipulate the behavior of PL/SQL warning messages, in particular by reading and changing the setting of the `PLSQL_WARNINGS` initialization parameter to control what kinds of warnings are suppressed, displayed, or treated as errors. This package provides the interface to query, modify and delete current system or session settings.

This chapter contains the following topics:

- [Security Model](#)
- [Summary of DBMS_WARNING Subprograms](#)

DBMS_WARNING Security Model

Note that for all the following interfaces, if value of the scope parameter is `SYSTEM`, then the user must have `ALTER SYSTEM` privilege.

Summary of DBMS_WARNING Subprograms

This table lists the `DBMS_WARNING` subprograms and briefly describes them.

Table 218-1 *DBMS_WARNING Package Subprograms*

Subprogram	Description
ADD_WARNING_SETTING_CAT Procedure	Modifies the current session or system warning settings of the <code>warning_category</code> previously supplied
ADD_WARNING_SETTING_NUM Procedure	Modifies the current session or system warning settings of the or <code>warning_number</code> previously supplied
GET_CATEGORY Function	Returns the category name, given the message number
GET_WARNING_SETTING_CAT Function	Returns the specific warning category in the session
GET_WARNING_SETTING_NUM Function	Returns the specific warning number in the session
GET_WARNING_SETTING_STRING Function	Returns the entire warning string for the current session
SET_WARNING_SETTING_STRING Procedure	Replaces previous settings with the new value

ADD_WARNING_SETTING_CAT Procedure

You can modify the current session's or system's warning settings with the value supplied in this procedure. The value will be added to the existing parameter setting if the value for the `warning_category` or `warning_value` has not been set, or override the existing value.

The effect of calling this function is same as adding the qualifier (`ENABLE/DISABLE/ERROR`) on the category specified to the end of the current session or system setting.

Syntax

```
DBMS_WARNING.ADD_WARNING_SETTING_CAT (
    warning_category    IN    VARCHAR2,
    warning_value       IN    VARCHAR2,
    scope               IN    VARCHAR2);
```

Parameters

Table 218-2 ADD_WARNING_SETTING_CAT Procedure Parameters

Parameter	Description
<code>warning_category</code>	Name of the category. Allowed values are ALL, INFORMATIONAL, SEVERE and PERFORMANCE.
<code>warning_value</code>	Value for the category. Allowed values are ENABLE, DISABLE, and ERROR.
<code>scope</code>	Specifies if the changes are being performed in the session context or the system context. Allowed values are SESSION or SYSTEM.

ADD_WARNING_SETTING_NUM Procedure

You can modify the current session or system warning settings with the value supplied in this procedure. If the value was already set, you will override the existing value.

The effect of calling this function is same as adding the qualifier (`ENABLE / DISABLE/ ERROR`) on the category specified to the end of the current session or system setting.

Syntax

```
DBMS_WARNING.ADD_WARNING_SETTING_NUM (
    warning_number      IN    NUMBER,
    warning_value       IN    VARCHAR2,
    scope               IN    VARCHAR2);
```

Parameters

Table 218-3 ADD_WARNING_SETTING_NUM Procedure Parameters

Parameter	Description
<code>warning_number</code>	The warning number. Allowed values are all valid warning numbers.
<code>warning_value</code>	Value for the category. Allowed values are ENABLE, DISABLE, and ERROR.

Table 218-3 (Cont.) ADD_WARNING_SETTING_NUM Procedure Parameters

Parameter	Description
scope	Specifies if the changes are being performed in the session context or the system context. Allowed values are SESSION or SYSTEM.

Example 218-1 Enabling the Deprecation Warnings

This example shows how to enable the DEPRECATE pragma warnings using the DBMS_WARNING package for the session.

```
BEGIN
  DBMS_WARNING.ADD_WARNING_SETTING_NUM (6019,
                                         'ENABLE',
                                         'SESSION');

  DBMS_WARNING.ADD_WARNING_SETTING_NUM (6020,
                                         'ENABLE',
                                         'SESSION');

  DBMS_WARNING.ADD_WARNING_SETTING_NUM (6021,
                                         'ENABLE',
                                         'SESSION');

  DBMS_WARNING.ADD_WARNING_SETTING_NUM (6022,
                                         'ENABLE',
                                         'SESSION');

END;
```

GET_CATEGORY Function

This function returns the category name, given the message number.

Syntax

```
DBMS_WARNING.GET_CATEGORY (
  warning_number IN pls_integer)
RETURN VARCHAR2;
```

Parameters**Table 218-4 GET_CATEGORY Function Parameters**

Parameter	Description
warning_number	The warning message number.

GET_WARNING_SETTING_CAT Function

This function returns the specific warning category setting for the current session.

Syntax

```
DBMS_WARNING.GET_WARNING_SETTING_CAT (  
    warning_category    IN    VARCHAR2)  
RETURN warning_value;
```

Parameters

Table 218-5 GET_WARNING_SETTING_CAT Function Parameters

Parameter	Description
warning_category	Name of the category. Allowed values are all valid category names (ALL, INFORMATIONAL, SEVERE and PERFORMANCE).

GET_WARNING_SETTING_NUM Function

This function returns the specific warning number setting for the current session.

Syntax

```
DBMS_WARNING.GET_WARNING_SETTING_NUM (  
    warning_number      IN    NUMBER)  
RETURN warning_value;
```

Parameters

Table 218-6 GET_WARNING_SETTING_NUM Function Parameters

Parameter	Description
warning_number	Warning number. Allowed values are all valid warning numbers.

GET_WARNING_SETTING_STRING Function

This function returns the entire warning string for the current session.

Syntax

```
DBMS_WARNING.GET_WARNING_SETTING_STRING  
RETURN VARCHAR2;
```

Usage Notes

Use this function when you do not have `SELECT` or `READ` privilege on `v$parameter` or `v$paramater2` fixed tables, or if you want to parse the warning string yourself and then modify and set the new value using `SET_WARNING_SETTING_STRING`.

SET_WARNING_SETTING_STRING Procedure

This procedure replaces previous settings with the new value.

The warning string may contain mix of category and warning numbers using the same syntax as used on the right hand side of '=' when issuing an ALTER SESSION or SYSTEM SET PLSQL_WARNINGS command. This will have same effect as ALTER SESSION or ALTER SYSTEM command.

Syntax

```
DBMS_WARNING.SET_WARNING_SETTING_STRING (  
    warning_value  IN  VARCHAR2,  
    scope          IN  VARCHAR2);
```

Parameters

Table 218-7 SET_WARNING_SETTING_STRING Procedure Parameters

Parameter	Description
warning_value	The new string that will constitute the new value.
scope	This will specify if the changes are being done in the session context, or system context. Allowed values are SESSION or SYSTEM.