

DBMS_TYPES

The `DBMS_TYPES` package consists of constants, which represent the built-in and user-defined types.

This chapter contains the following topics:

- [Constants](#)
- [Exceptions](#)

DBMS_TYPES Constants

The `DBMS_TYPES` package defines several constants to use when specifying parameter values.

These constants are listed in following table .

Table 210-1 *DBMS_TYPES Constants*

Constant	Description
<code>NO_DATA</code>	Is only relevant if <code>PieceWise</code> is called, for a collection or any dataset. Denotes the end of collection/any dataset when all the elements have been accessed
<code>SUCCESS</code>	The operation succeeded
<code>TYPECODE_BDOUBLE</code>	A <code>NUMBER</code> type
<code>TYPECODE_BFILE</code>	A <code>BFILE</code> type
<code>TYPECODE_BFLOAT</code>	A <code>NUMBER</code> type
<code>TYPECODE_BLOB</code>	A <code>BLOB</code> type
<code>TYPECODE_CFILE</code>	A <code>CFILE</code> type
<code>TYPECODE_CHAR</code>	A <code>CHAR</code> type
<code>TYPECODE_CLOB</code>	A <code>CLOB</code> type
<code>TYPECODE_DATE</code>	A <code>DATE</code> type
<code>TYPECODE_INTERVAL_DS</code>	An <code>INTERVAL_DS</code> type
<code>TYPECODE_INTERVAL_YM</code>	A <code>INTERVAL_YM</code> type
<code>TYPECODE_MLSLABEL</code>	An <code>MLSLABEL</code> type
<code>TYPECODE_NAMEDCOLLECTION</code>	A named collection (<code>VARRAY</code> /nested table) type
<code>TYPECODE_NCHAR</code>	A <code>NCHAR</code> type
<code>TYPECODE_NCLOB</code>	A <code>NCLOB</code> type
<code>TYPECODE_NUMBER</code>	A <code>NUMBER</code> type
<code>TYPECODE_NVARCHAR2</code>	A <code>NVARCHAR2</code> type
<code>TYPECODE_OBJECT</code>	An <code>OBJECT</code> type
<code>TYPECODE_OPAQUE</code>	An <code>OPAQUE</code> type

Table 210-1 (Cont.) DBMS_TYPES Constants

Constant	Description
TYPECODE_RAW	A RAW type
TYPECODE_REF	A REF type
TYPECODE_TABLE	A nested table collection type
TYPECODE_TIMESTAMP	A TIMESTAMP type
TYPECODE_TIMESTAMP_LTZ	A TIMESTAMP_LTZ type
TYPECODE_TIMESTAMP_TZ	A TIMESTAMP_TZ type
TYPECODE_UROWID	A UROWID type
TYPECODE_VARCHAR2	A VARCHAR2 type
TYPECODE_VARCHAR	A VARCHAR type
TYPECODE_VARRAY	A VARRAY collection type

DBMS_TYPES Exceptions

DBMS_TYPES throws these exceptions.

- INVALID_PARAMETERS
- INCORRECT_USAGE
- TYPE_MISMATCH