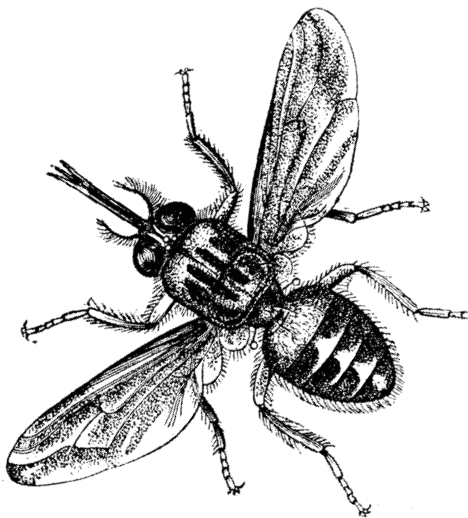


Views, Columns & Tips



Oracle Data Dictionary

Pocket Reference



O'REILLY®

David C. Kreines

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Tables, columns, and views

Tables are the most important building blocks of an Oracle database. These views provide information about tables, columns, clusters, and views:

*_ALL_TABLES

Lists all object and relational tables.

OWNER	VARCHAR2(30)
TABLE_NAME	VARCHAR2(30)
TABLESPACE_NAME	VARCHAR2(30)
CLUSTER_NAME	VARCHAR2(30)
IOT_NAME	VARCHAR2(30)
PCT_FREE	NUMBER
PCT_USED	NUMBER
INI_TRANS	NUMBER
MAX_TRANS	NUMBER
INITIAL_EXTENT	NUMBER
NEXT_EXTENT	NUMBER
MIN_EXTENTS	NUMBER
MAX_EXTENTS	NUMBER
PCT_INCREASE	NUMBER
FREELISTS	NUMBER
FREELIST_GROUPS	NUMBER
LOGGING	VARCHAR2(3)
BACKED_UP	VARCHAR2(1)
NUM_ROWS	NUMBER
BLOCKS	NUMBER
EMPTY_BLOCKS	NUMBER
AVG_SPACE	NUMBER
CHAIN_CNT	NUMBER
AVG_ROW_LEN	NUMBER
AVG_SPACE_FREELIST_BLOCKS	NUMBER
NUM_FREELIST_BLOCKS	NUMBER
DEGREE	VARCHAR2(10)
INSTANCES	VARCHAR2(10)
CACHE	VARCHAR2(5)
TABLE_LOCK	VARCHAR2(8)
SAMPLE_SIZE	NUMBER
LAST_ANALYZED	DATE
PARTITIONED	VARCHAR2(3)
IOT_TYPE	VARCHAR2(12)
OBJECT_ID_TYPE	VARCHAR2(16)
TABLE_TYPE_OWNER	VARCHAR2(30)
TABLE_TYPE	VARCHAR2(30)
TEMPORARY	VARCHAR2(1)
SECONDARY	VARCHAR2(1)
NESTED	VARCHAR2(3)

BUFFER_POOL	VARCHAR2(7)
ROW_MOVEMENT	VARCHAR2(8)
GLOBAL_STATS	VARCHAR2(3)
USER_STATS	VARCHAR2(3)
DURATION	VARCHAR2(15)
SKIP_CORRUPT	VARCHAR2(8)
MONITORING	VARCHAR2(3)
CLUSTER_OWNER	VARCHAR2(30)
DEPENDENCIES	VARCHAR2(8)

NOTE

The name of this view can be confusing, because one of the full names is ALL_ALL_TABLES, which is different from the view ALL_TABLES.

* _CLU_COLUMNS

Lists all cluster keys.

CLUSTER_NAME	#VARCHAR2(30)
CLU_COLUMN_NAME	#VARCHAR2(30)
TABLE_NAME	#VARCHAR2(30)
TAB_COLUMN_NAME	VARCHAR2(4000)

* _CLUSTER_HASH_EXPRESSIONS

Lists the hash values used for the optional cluster hash indexes.

OWNER	#VARCHAR2(30)
CLUSTER_NAME	#VARCHAR2(30)
HASH_EXPRESSION	LONG

* _CLUSTERS

Lists all clusters in the database.

OWNER	#VARCHAR2(30)
CLUSTER_NAME	#VARCHAR2(30)
TABLESPACE_NAME	#VARCHAR2(30)
PCT_FREE	NUMBER
PCT_USED	NUMBER
KEY_SIZE	NUMBER
INI_TRANS	#NUMBER
MAX_TRANS	#NUMBER
INITIAL_EXTENT	NUMBER
NEXT_EXTENT	NUMBER
MIN_EXTENTS	#NUMBER
MAX_EXTENTS	#NUMBER
PCT_INCREASE	NUMBER
FREELISTS	NUMBER

FREELIST_GROUPS	NUMBER
AVG_BLOCKS_PER_KEY	NUMBER
CLUSTER_TYPE	VARCHAR2(5)
FUNCTION	VARCHAR2(15)
HASHKEYS	NUMBER
DEGREE	VARCHAR2(10)
INSTANCES	VARCHAR2(10)
CACHE	VARCHAR2(5)
BUFFER_POOL	VARCHAR2(7)
SINGLE_TABLE	VARCHAR2(5)
DEPENDENCIES	VARCHAR2(8)

* **_COL_COMMENTS**

Shows comments on all table and view columns.

OWNER	#VARCHAR2(30)
TABLE_NAME	#VARCHAR2(30)
COLUMN_NAME	#VARCHAR2(30)
COMMENTS	VARCHAR2(4000)

* **_EXTERNAL_LOCATIONS**

Lists the sources for the external tables.

OWNER	#VARCHAR2(30)
TABLE_NAME	#VARCHAR2(30)
LOCATION	VARCHAR2(4000)
DIRECTORY_OWNER	CHAR(3)
DIRECTORY_NAME	VARCHAR2(30)

* **_EXTERNAL_TABLES**

Describes the attributes of external tables.

OWNER	#VARCHAR2(30)
TABLE_NAME	#VARCHAR2(30)
TYPE_OWNER	CHAR(3)
TYPE_NAME	#VARCHAR2(30)
DEFAULT_DIRECTORY_OWNER	CHAR(3)
DEFAULT_DIRECTORY_NAME	#VARCHAR2(30)
REJECT_LIMIT	VARCHAR2(40)
ACCESS_TYPE	VARCHAR2(7)
ACCESS_PARAMETERS	VARCHAR2(4000)

* **_TAB_COL_STATISTICS**

Contains column information about analyzed columns.

OWNER	#VARCHAR2(30)
TABLE_NAME	#VARCHAR2(30)
COLUMN_NAME	#VARCHAR2(30)
NUM_DISTINCT	NUMBER
LOW_VALUE	RAW(32)
HIGH_VALUE	RAW(32)

DENSITY	NUMBER
NUM_NULLS	NUMBER
NUM_BUCKETS	NUMBER
LAST_ANALYZED	DATE
SAMPLE_SIZE	NUMBER
GLOBAL_STATS	VARCHAR2(3)
USER_STATS	VARCHAR2(3)
AVG_COL_LEN	NUMBER

NOTE

The *_TAB_COL_STATISTICS view only contains rows for tables that have been analyzed.

*_TAB_COLUMNS

Shows all table and view columns.

OWNER	#VARCHAR2(30)
TABLE_NAME	#VARCHAR2(30)
COLUMN_NAME	#VARCHAR2(30)
DATA_TYPE	VARCHAR2(106)
DATA_TYPE_MOD	VARCHAR2(3)
DATA_TYPE_OWNER	VARCHAR2(30)
DATA_LENGTH	#NUMBER
DATA_PRECISION	NUMBER
DATA_SCALE	NUMBER
NULLABLE	VARCHAR2(1)
COLUMN_ID	NUMBER
DEFAULT_LENGTH	NUMBER
DATA_DEFAULT	LONG
NUM_DISTINCT	NUMBER
LOW_VALUE	RAW(32)
HIGH_VALUE	RAW(32)
DENSITY	NUMBER
NUM_NULLS	NUMBER
NUM_BUCKETS	NUMBER
LAST_ANALYZED	DATE
SAMPLE_SIZE	NUMBER
CHARACTER_SET_NAME	VARCHAR2(44)
CHAR_COL_DECL_LENGTH	NUMBER
GLOBAL_STATS	VARCHAR2(3)
USER_STATS	VARCHAR2(3)
AVG_COL_LEN	NUMBER
CHAR_LENGTH	NUMBER
CHAR_USED	VARCHAR2(1)
V80_FMT_IMAGE	VARCHAR2(3)
DATA_UPGRADED	VARCHAR2(3)

NOTE

You can use the *_TAB_COLUMNS view to build the DDL to create a table. By joining additional views, you can create an even more precise CREATE TABLE statement. For example, information in the *_SEGMENTS table contains the data required to build a STORAGE clause.

*_TAB_COMMENTS

Shows all comments on tables and views.

OWNER	#VARCHAR2(30)
TABLE_NAME	#VARCHAR2(30)
TABLE_TYPE	VARCHAR2(11)
COMMENTS	VARCHAR2(4000)

NOTE

Joining the *_TAB_COMMENTS view with *_TABLES and perhaps *_SEGMENTS lets you produce good table documentation programmatically.

*_TAB_HISTOGRAMS

Shows all table histograms.

OWNER	VARCHAR2(30)
TABLE_NAME	VARCHAR2(30)
COLUMN_NAME	VARCHAR2(4000)
ENDPOINT_NUMBER	NUMBER
ENDPOINT_VALUE	NUMBER
ENDPOINT_ACTUAL_VALUE	VARCHAR2(1000)

*_TABLES

Shows all relational tables.

OWNER	#VARCHAR2(30)
TABLE_NAME	#VARCHAR2(30)
TABLESPACE_NAME	VARCHAR2(30)
CLUSTER_NAME	VARCHAR2(30)
IOT_NAME	VARCHAR2(30)
PCT_FREE	NUMBER
PCT_USED	NUMBER
INI_TRANS	NUMBER
MAX_TRANS	NUMBER
INITIAL_EXTENT	NUMBER

NEXT_EXTENT	NUMBER
MIN_EXTENTS	NUMBER
MAX_EXTENTS	NUMBER
PCT_INCREASE	NUMBER
FREELISTS	NUMBER
FREELIST_GROUPS	NUMBER
LOGGING	VARCHAR2(3)
BACKED_UP	VARCHAR2(1)
NUM_ROWS	NUMBER
BLOCKS	NUMBER
EMPTY_BLOCKS	NUMBER
AVG_SPACE	NUMBER
CHAIN_CNT	NUMBER
AVG_ROW_LEN	NUMBER
AVG_SPACE_FREELIST_BLOCKS	NUMBER
NUM_FREELIST_BLOCKS	NUMBER
DEGREE	VARCHAR2(10)
INSTANCES	VARCHAR2(10)
CACHE	VARCHAR2(5)
TABLE_LOCK	VARCHAR2(8)
SAMPLE_SIZE	NUMBER
LAST_ANALYZED	DATE
PARTITIONED	VARCHAR2(3)
IOT_TYPE	VARCHAR2(12)
TEMPORARY	VARCHAR2(1)
SECONDARY	VARCHAR2(1)
NESTED	VARCHAR2(3)
BUFFER_POOL	VARCHAR2(7)
ROW_MOVEMENT	VARCHAR2(8)
GLOBAL_STATS	VARCHAR2(3)
USER_STATS	VARCHAR2(3)
DURATION	VARCHAR2(15)
SKIP_CORRUPT	VARCHAR2(8)
MONITORING	VARCHAR2(3)
CLUSTER_OWNER	VARCHAR2(30)
DEPENDENCIES	VARCHAR2(8)

*_UPDATABLE_COLUMNS

Lists columns that can be updated in views with joins.

OWNER	#VARCHAR2(30)
TABLE_NAME	#VARCHAR2(30)
COLUMN_NAME	#VARCHAR2(30)
UPDATABLE	VARCHAR2(3)
INSERTABLE	VARCHAR2(3)
DELETABLE	VARCHAR2(3)

*_VIEWS

Shows all views.

OWNER	#VARCHAR2(30)
VIEW_NAME	#VARCHAR2(30)
TEXT_LENGTH	NUMBER
TEXT	LONG
TYPE_TEXT_LENGTH	NUMBER
TYPE_TEXT	VARCHAR2(4000)
OID_TEXT_LENGTH	NUMBER
OID_TEXT	VARCHAR2(4000)
VIEW_TYPE_OWNER	VARCHAR2(30)
VIEW_TYPE	VARCHAR2(30)
SUPERVIEW_NAME	VARCHAR2(30)