[http://docs.oracle.com/cd/E11882\_01/server.112/e41084/statements\_5012.htm#SQLRF01209](http://docs.oracle.com/cd/E11882_01/server.112/e41084/statements_5012.htm" \l "SQLRF01209)

ogging\_clause Specify whether the creation of the index will be logged (LOGGING) or not logged (NOLOGGING) in the redo log file. This setting also determines whether subsequent Direct Loader (SQL\*Loader) and direct-path INSERT operations against the index are logged or not logged. LOGGING is the default.

If index is nonpartitioned, then this clause specifies the logging attribute of the index.

If index is partitioned, then this clause determines:

* The default value of all partitions specified in the CREATE statement, unless you specify the logging\_clause in the PARTITION description clause
* The default value for the segments associated with the index partitions
* The default value for local index partitions or subpartitions added implicitly during subsequent ALTER TABLE ... ADD PARTITION operations

The logging attribute of the index is independent of that of its base table.

If you omit this clause, then the logging attribute is that of the tablespace in which it resides.

See Also:

* [logging\_clause](http://docs.oracle.com/cd/E11882_01/server.112/e41084/clauses005.htm" \l "i999782) for a full description of this clause
* [Oracle Database VLDB and Partitioning Guide](http://docs.oracle.com/cd/E11882_01/server.112/e25523/parallel.htm" \l "VLDBG010) for more information about logging and parallel DML
* ["Creating an Index in NOLOGGING Mode: Example"](http://docs.oracle.com/cd/E11882_01/server.112/e41084/statements_5012.htm" \l "i2129491)

ONLINE  Specify ONLINE to indicate that DML operations on the table will be allowed during creation of the index.

Restrictions on Online Index Building Online index building is subject to the following restrictions:

* Parallel DML is not supported during online index building. If you specify ONLINE and then issue parallel DML statements, then Oracle Database returns an error.
* You cannot specify ONLINE for a bitmap index or a cluster index.
* You cannot specify ONLINE for a conventional index on a UROWID column.
* For a nonunique secondary index on an index-organized table, the number of index key columns plus the number of primary key columns that are included in the logical rowid in the index-organized table cannot exceed 32. The logical rowid excludes columns that are part of the index key.

See Also:

[Oracle Database Concepts](http://docs.oracle.com/cd/E11882_01/server.112/e40540/indexiot.htm" \l "CNCPT811) for a description of online index building and rebuilding

parallel\_clause

Specify the parallel\_clause if you want creation of the index to be parallelized.

For complete information on this clause, refer to [parallel\_clause](http://docs.oracle.com/cd/E11882_01/server.112/e41084/statements_7002.htm" \l "i2159323) in the documentation on CREATE TABLE.

eg:

创建索引的时候可通过parallel和nologging参数加快索引的创建，创建完成后修改为logging和parallel=1

create index CHARISMA.idx\_isonline on CHARISMA.ST\_LOGONLOG(ISONLINE) online nologging parallel 4 tablespace USER\_AS;

alter index CHARISMA.idx\_isonline logging;

alter index ebank.PK\_CB\_LOG parallel 6;

alter index ebank.PK\_CB\_LOG rebuild online nologging;

alter index ebank.PK\_CB\_LOG parallel 1;

alter index ebank.PK\_CB\_LOG logging;

在10g后有个隐含参数"\_optimizer\_compute\_index\_stats"，该参数默认是TRUE，意思时是否对新建索引收集统计信息；

主键，唯一键索引重建的方法

两种方法

（1）删掉主键然后再加主键，此时索引自动加上拉

（2）ALTER INDEX index\_name REBUILD;

建议用第二种

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监控索引创建进度

alter session set nls\_date\_format = 'yyyy-mm-dd,hh24:mi:ss';

set lines 300

col target for a15

select QCSID,sid,target,sofar,totalwork,last\_update\_time,ELAPSED\_SECONDS,TIME\_REMAINING

from v$session\_longops where QCSID=1886 order by last\_update\_time ;

注意:1886是执行create index的那个session的sid

 -----------------查询索引创建进度-------

col opname format a32

col target\_desc format a32

col perwork format a12

set lines 131

select sid,OPNAME,TARGET\_DESC,sofar,TOTALWORK,trunc(sofar/totalwork\*100,2)||'%' as perwork

from v$session\_longops where sofar!=totalwork;

当然也不仅仅是索引，其他的大的操作（比如收集统计信息等），也能监控

<<2、重建分区索引.zip>>

<<1、重建主键索引.txt>>

在分析(analyze)指定索引之后，查询index\_stats的height，del\_lf\_rows和lf\_rows字段的值，如果height>=4或(del\_lf\_rows/lf\_rows)\*100> =20 ,则最好重建（rebuild）这个索引。

分析索引的脚本：

analyze index [索引名称] validate structure;

select name,height,del\_lf\_rows,lf\_rows,(del\_lf\_rows/lf\_rows) \*100 from index\_stats;