

1 重做日志数据字典视图

如图，展示了重做日志相关的数据字典视图信息：

View	Description
V\$LOG	Displays the redo log file information from the control file
V\$LOGFILE	Identifies redo log groups and members and member status
V\$LOG_HISTORY	Contains log history information

2 创建重做日志组和成员

2.1 创建重做日志组

```
SQL> alter database add logfile '/u01/app/oracle/oradata/orcl/redo04.log' size 200M;
```

Database altered.

```
SQL> alter database add logfile  
('/u01/app/oracle/oradata/orcl/redo05_01.log','/u01/app/oracle/oradata/orcl/redo05_02.log')  
size 200M;
```

Database altered.

```
SQL> alter database add logfile group 6 '/u01/app/oracle/oradata/orcl/redo06_01.log' size  
200M;
```

Database altered.

如果不加GROUP参数的话，则默认在原来日志组的基础上自动增长。

2.2 创建重做日志成员

```
SQL> alter database add logfile member '/u01/app/oracle/oradata/orcl/redo06_02.log' to  
group 6;
```

Database altered.

```
SQL> alter database add logfile member '/home/oracle/redo04_02.log' to  
('/u01/app/oracle/oradata/orcl/redo04.log');
```

Database altered.

3 重定位和重命名重做日志成员

场景：将6号日志组的成员/u01/app/oracle/oradata/orcl/redo06_02.log移到/home/oracle/redo下。

3.1 关闭数据库

```
SQL> shutdown immediate  
Database closed.  
Database dismounted.  
ORACLE instance shut down.
```

3.2 拷贝重做日志文件到新的位置

```
[oracle@strong ~]$ mkdir redo  
[oracle@strong ~]$ mv /u01/app/oracle/oradata/orcl/redo06_02.log  
/home/oracle/redo/redo06_home.log  
[oracle@strong ~]$ ll redo  
total 204804  
-rw-r-----. 1 oracle oinstall 209715712 Jul 22 17:29 redo06_home.log
```

3.3 启动数据库至mount状态

```
SQL> startup mount  
ORACLE instance started.
```

```
Total System Global Area 843055104 bytes  
Fixed Size 8626288 bytes  
Variable Size 587206544 bytes  
Database Buffers 243269632 bytes  
Redo Buffers 3952640 bytes  
Database mounted.
```

3.4 重命名重做日志成员

```
SQL> alter database rename file '/u01/app/oracle/oradata/orcl/redo06_02.log' to  
'/home/oracle/redo/redo06_home.log';
```

Database altered.

3.5 打开数据库

```
SQL> alter database open;
```

Database altered.

4 删除重做日志组合成员

4.1 删除日志组

```
SQL> alter database drop logfile group 5;
```

Database altered.

```
SQL> host rm /u01/app/oracle/oradata/orcl/redo05_01.log;
```

```
SQL> host rm /u01/app/oracle/oradata/orcl/redo05_02.log;
```

日志组只有在inactive状态，并且已归档才可以删除，删除后，文件仍在，需要使用操作系统命令删除。

4.2 删除重做日志成员

```
SQL> alter database drop logfile member '/home/oracle/redo/redo06_home.log';
```

Database altered.

```
SQL> host rm /home/oracle/redo/redo06_home.log
```

如果删除的日志成员是重做日志组的最后一个有效的成员，则不能删除；如果该日志组当前正在使用，在日志切换前则不能删除该组的成员；如果数据库运行在归档模式，而且要删除的日志成员所在的日志组没有被

归档，则该组的日志成员不能被删除。

5 强制日志切换

```
SQL> alter system switch logfile;
```

System altered.

通过该操作可从告警日志看到如下内容：

```
2018-07-22T17:54:30.278547+08:00
```

```
Thread 1 advanced to log sequence 3 (LGWR switch)
```

```
Current log# 3 seq# 3 mem# 0: /u01/app/oracle/oradata/orcl/redo03.log
```

```
2018-07-22T17:54:34.149094+08:00
```

```
Archived Log entry 5 added for T-1.S-2 ID 0x59f975c2 LAD:1
```

6 清除重做日志文件

```
SQL> alter database clear logfile group 1;
```

Database altered.

```
SQL> alter database clear unarchived logfile group 2;
```

Database altered.

如果重做日志文件损坏且未被归档，使用unarchived关键字