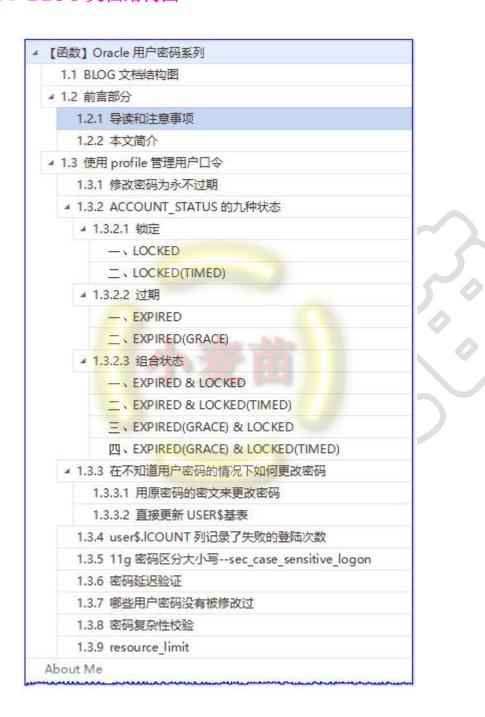
## 【密码】Oracle 用户密码系列

## 1.1 BLOG 文档结构图



## 1.2 前言部分

## 1.2.1 导读和注意事项

各位技术爱好者,看完本文后,你可以掌握如下的技能,也可以学到一些其它你所不知道的知识,~○(∩ ∩)○~:

- ① 用户的 9 种状态含义 (重点)
- ② 如何解锁账户
- ③ 如何修改密码无效状态

- ④ 如何获取密码的密文,如何利用密文修改用户的密码(重点)
- ⑤ 如何查询失败的登陆次数
- ⑥ 11g 密码大小写问题
- ⑦ 11g 密码延迟验证
- ⑧ 密码复杂性校验

#### Tips:

① 本文在itpub(http://blog.itpub.net/26736162)、博客园

(http://www.cnblogs.com/lhrbest)和微信公众号(xiaomaimiaolhr)上有同步更新。

- ② 文章中用到的所有代码、相关软件、相关资料及本文的 pdf 版本都请前往小麦苗的云盘下载,小麦苗的云盘地址见: http://blog.itpub.net/26736162/viewspace-1624453/。
  - ③ 若网页文章代码格式有错乱,请下载 pdf 格式的文档来阅读。
  - ④ 在本篇 BLOG 中,代码输出部分一般放在一行一列的表格中。

本文若有错误或不完善的地方请大家多多指正,您的批评指正是我写作的最大动力。

### 1.2.2 本文简介

客户的一个账户密码过期了,但是客户设置了永不过期,问到我为什么。我当时觉得设置了永不过期那肯定是生效的,只是这个部分的内容忘得差不多了,当时还想到可能是 resource\_limit 这个参数没有设置为 TRUE 的缘故,后来查了官方文档才知道并不是这个原因。于是下决心把这部分的内容系统学习一下,自己总结的内容分享给大家。

## 1.3 使用 profile 管理用户口令

Oracle 用户的状态是由密码来决定的,而 Oracle 中的密码是由 PROFILE 来配置的。PROFILE 是口令限制、资源限制的命令集合。当建立数据库时,Oracle 会自动建立名称为 DEFAULT 的 PROFILE。当创建用户而没有指定 PROFILE 选项时,Oracle 就会将 DEFAULT 分配给用户。

通过如下的命令可以查出与密码相关的 PROFILE 的值:

```
FROM DBA_PROFILES D
WHERE D.PROFILE = 'DEFAULT'
AND (D.RESOURCE_NAME LIKE '%PASSWORD%' OR
D.RESOURCE_NAME = 'FAILED_LOGIN_ATTEMPTS');
```

- 1	PROFILE	RESOURCE_NAME	1	RESOURCE_TYPE _	LIMIT
1	DEFAULT	FAILED_LOGIN_ATTEMPTS		PASSWORD	10
2	DEFAULT	PASSWORD_LIFE_TIME	i	PASSWORD	180
3	DEFAULT	PASSWORD_REUSE_TIME	- 22	PASSWORD	UNLIMITED
4	DEFAULT	PASSWORD_REUSE_MAX	2.1	PASSWORD	UNLIMITED
5	DEFAULT	PASSWORD_VERIFY_FUNCTION		PASSWORD	VERIFY_FUNCTION_11G ···
6	DEFAULT	PASSWORD_LOCK_TIME		PASSWORD	1
7	DEFAULT	PASSWORD GRACE TIME		PASSWORD	7

每个参数的含义如下所示:

- FAILED\_LOGIN\_ATTEMPTS 设定登录到 Oracle 数据库时可以失败的次数。一旦某用户尝试登录数据库的达到该值时,该用户的帐户就被锁定,只能由 DBA 能解锁。
- PASSWORD LIFE TIME 设定口令的有效时间(天数),一旦超过这一时间,必须重新设口令。缺省为 180 天。

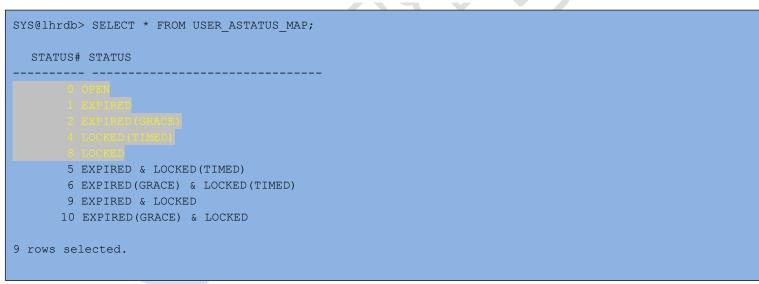
- PASSWORD\_REUSE\_TIME 许多系统不许用户重新启用过去用过的口令。该资源项设定了一个失效口令要经过多少天,用户才可以重新使用该口令,缺省为 UNLIMITED。
- PASSWORD REUSE MAX 重新启用一个先前用过的口令前必须对该口令进行重新设置的次数(重复用的次数)。
- PASSWORD LOCK TIME 设定帐户被锁定的天数(当登录失败达到 FAILED LOGIN ATTEMPTS 时)。
- PASSWORD\_GRACE\_TIME 设定在口令失效前,给予的重新设该口令的宽限天。当口令失效之后回,在登录时会出现警告信息显示该天数。如果没有在宽限天内修改口令,口令将失效。
- PASSWORD\_VERITY\_FUNCTION 该资源项允许调用一个 PL/SQL 来验证口令。Oracle 已提供该应用的脚本,为\$ORACLE\_HOME/rdbms/admin/utlpwdmg.sql。但是,用户可以制定自己的验证脚本。该参数的设定就是PL/SQL 函数的名称,缺省为 NULL。

## 1.3.1 修改密码为永不过期

SYS@lhrdb> select username, accou	nt_status,EXPIRY_	DATE, profile from dba_users where username = 'LHRSYS';
USERNAM ACCOUNT_STATUS	EXPIRY_DATE	PROFILE
LHRSYS OPEN	2016-12-07 15:20:36	TESTPROFILE
SYS@lhrdb> alter user lhrsys pass	word expire;	
User altered.		
SYS@lhrdb> select username, accou	nt_status,EXPIRY_	DATE, profile from dba_users where username = 'LHRSYS';
USERNAM ACCOUNT_STATUS	EXPIRY_DATE	PROFILE
LHRSYS EXPIRED	2016-12-02 16:36:24	TESTPROFILE
SYS@lhrdb> ALTER PROFILE TESTPROF	CILE LIMIT PASSWOE	RD_LIFE_TIME UNLIMITED;
Profile altered.		
SYS@lhrdb> select username, accou	nt_status,EXPIRY_	DATE, profile from dba_users where username = 'LHRSYS';
USERNAM ACCOUNT_STATUS	EXPIRY_DATE	PROFILE
LHRSYS EXPIRED		TESTPROFILE
SYS@lhrdb> SELECT NB.PASSWORD FRO	M USER\$ NB WHERE	NB.NAME ='LHRSYS';
PASSWORD		
F809740420A44EFC		
SYS@lhrdb> ALTER USER LHRSYS IDE	ENTIFIED BY VALUE	S 'F809740420A44EFC';
User altered.		
SYS@lhrdb> select username, accou	nt_status,EXPIRY_	DATE, profile from dba_users where username = 'LHRSYS';
USERNAM ACCOUNT_STATUS	EXPIRY_DATE	PROFILE
LHRSYS OPEN		TESTPROFILE
SYS@lhrdb>		

## 1.3.2 ACCOUNT STATUS 的九种状态





以上九种可以分为两大类: 1.基本状态; 2.组合状态。

# 前五种是基本状态:

- 0 OPEN
- 1 EXPIRED
- 2 EXPIRED (GRACE)
- 4 LOCKED (TIMED)
- 8 LOCKED

### 后四种是组合状态:

- 5 EXPIRED & LOCKED (TIMED)
- 6 EXPIRED (GRACE) & LOCKED (TIMED)
- 9 EXPIRED & LOCKED
- 10 EXPIRED (GRACE) & LOCKED

规律是这样的:后四种的组合状态可以通过状态号 STATUS#获得它是哪两种状态的组合,例如 10=2+8(10

EXPIRED(GRACE) & LOCKED = 2 EXPIRED(GRACE) + 8 LOCKED)。因此只要了解基本状态的含义其他便可无师自通。

这五种基本状态又可以分为三类: 1.正常状态: 2.锁定状态: 3.密码过期状态。

- 1) OPEN 表示用户处于正常状态。
- 2) 用户被锁定状态,LOCKED 和 LOCKED (TIMED) 两种状态都属于锁定状态

用户被锁定一般分为两种:一种是 DBA 显式的通过 SQL 语句对用户进行锁定;另外一种是被动的锁定,例如默认情况下如果密码输入错误超过 10 次(这个限制是由 PROFILE 中的 FAILED\_LOGIN\_ATTEMPTS 控制的,该信息可以通过 DBA PROFILES 视图查询),用户将被锁定。

状态序号	状态	解释	处理办法
0	OPEN	OPEN表示用户处于正常状态	
1		密码是否过期是通过修改PROFILE中的PASSWORD_LIFE_TIME实现的,表示该帐户被设置为口令到期,要求用户在下次登录的时候修改口令(系统会在该账户被设置为EXPIRE后的第一次登陆是提示修改密码)。可以通过SQL语句(ALTER USER LHRSYS PASSWORD EXPIRE;)来显式的让用户密码过期。	修改密码: SELECT NB.PASSWORD FROM USER\$ NB WHERE NB.NAME ='LHRSYS'; ALTER USER SCOTT IDENTIFIED BY VALUES 'F894844C34402B67';
2	EXPIRED(	当设置了GRACE以后(第一次成功登录后到口令到期后有多少天时间可改变口令,在这段时间内,帐户被提醒修改口令并可以正常登陆,ACCOUNI_STATUS显示为EXPIRED(GRACE)	修改密码: SELECT NB.PASSWORD FROM USER\$ NB WHERE NB.NAME ='LHRSYS'; ALTER USER SCOTT IDENTIFIED BY VALUES 'F894844C34402B67';
4	LOCKED (T	表示失败的登录次数超过了FAILED_LOGIN_ATTEMPTS,被系统自动 锁定,需要注意的是,在ORACLE 10G及以后的版本中,默认的 DEFAULT值是10次,这个限制是由PROFILE中的 FAILED_LOGIN_ATTEMPTS控制的,该信息可以通过DBA_PROFILES 视图查询	ALTER USER LHRSYS ACCOUNT UNLOCK;
8	LOCKED	DBA显式的通过SQL语句对用户进行锁定 (ALTER USER LHRSYS ACCOUNT LOCK;)	ALTER USER LHRSYS ACCOUNT UNLOCK;
5		表示用户密码过期后,失败登录次数超过PROFILE中的 FAILED_LOGIN_ATTEMPTS的限制	将用户UNLOCK并修改密码: ALTER USER LHRSYS ACCOUNT UNLOCK; ALTER USER LHRSYS IDENTIFIED BY LHR;
6		表示用户在密码过期后的有效期内,失败登录次数超过PROFILE中的 FAILED_LOGIN_ATTEMPTS的限制	将用户UNLOCK并修改密码: ALTER USER LHRSYS ACCOUNT UNLOCK; ALTER USER LHRSYS IDENTIFIED BY LHR;
9	EXPIRED & LOCKED	EXPIRED & LOCKED状态表示用户密码过期且同时处于锁定状态	将用户UNLOCK并修改密码: ALTER USER LHRSYS ACCOUNT UNLOCK; ALTER USER LHRSYS IDENTIFIED BY LHR;
10	EXPIRED ( GRACE) & LOCKED	表示用户在密码过期后的有效期内被DBA手工谈定。	将用户UNLOCK并修改密码: ALTER USER LHRSYS ACCOUNT UNLOCK; ALTER USER LHRSYS IDENTIFIED BY LHR;

### 1.3.2.1 锁定状态

### -, LOCKED

### 显式锁定 LHRSYS 用户 LOCKED 状态演示

SELECT D.USERNAME,

- D.ACCOUNT\_STATUS,
- D.LOCK DATE,
- D.EXPIRY\_DATE,
- D.PROFILE,

NVL (D. PASSWORD,

(SELECT NB.PASSWORD FROM USER\$ NB WHERE NB.NAME = D.USERNAME)) PASSWORD

FROM DBA USERS D

WHERE D.USERNAME = 'LHRSYS';

USERNAME _	ACCOUNT_STA	TUS _	LOCK_DATE _	EXPIRY_DATE _	PROFILE _	PASSWORD
1 LHRSYS ···	OPEN		•		DEFAULT	B13E00699C76DDAC

User altered. SYS@lhrdb> conn lhrsys/lhr ERROR: ORA-28000: the account is locked Warning: You are no longer connected to ORACLE. @> conn / as sysdba Connected. SYS@lhrdb> select username, account status,d.lock date from dba users d where username = 'LHRSYS'; USERNAME ACCOUNT\_STATUS LOCK\_DATE LHRSYS LOCKED 2016-12-02 09:33:50 SYS@lhrdb> ALTER USER LHRSYS ACCOUNT UNLOCK; User altered. SYS@lhrdb> select username, account status,d.lock date from dba users d where username = 'LHRSYS'; ACCOUNT STATUS USERNAME LOCK DATE LHRSYS OPEN

#### 二、 LOCKED(TIMED)

### 输入 10 次错误密码后被动锁定 LOCKED(TIMED)状态演示

#### 尝试输入10次错误密码后再次查询用户状态。

SYS@lhrdb> SELECT \* FROM Dba Profiles d WHERE d.profile='DEFAULT' AND D.resource\_name LIKE '%FAILED LOGIN ATTEMPTS%'; PROFILE RESOURCE\_NAME RESOURCE LIMIT **DEFAULT** FAILED\_LOGIN\_ATTEMPTS PASSWORD 10 SYS@lhrdb> CONN LHRSYS/XXXX@192.168.59.129/lhrdb ERROR: ORA-01017: invalid username/password; logon denied Warning: You are no longer connected to ORACLE. @> CONN LHRSYS/XXXX@192.168.59.129/lhrdb ORA-01017: invalid username/password; logon denied @> CONN LHRSYS/XXXX@192.168.59.129/lhrdb ERROR: ORA-01017: invalid username/password; logon denied @> CONN LHRSYS/XXXX@192.168.59.129/lhrdb

```
ERROR:
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ERROR:
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ERROR:
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ERROR:
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ERROR.
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ERROR:
                                <<<<<< -----超过 10 次后用户被锁定
@> CONN / AS SYSDBA
Connected.
SYS@lhrdb> select username, account status,d.lock date from dba users d where username = 'LHRSYS';
USERNAME
                          ACCOUNT_STATUS
                                                      LOCK_DATE
                                                      2016-12-02 09:37:20
LHRSYS
SYS@lhrdb>
SYS@lhrdb>
SYS@lhrdb> ALTER USER LHRSYS ACCOUNT UNLOCK;
User altered.
SYS@lhrdb> select username, account_status,d.lock_date from dba_users d where username = 'LHRSYS';
USERNAME
                          ACCOUNT STATUS
                                                      LOCK DATE
LHRSYS
                          OPEN
```

### 1.3.2.2 过期状态

### 用户密码过期状态,EXPIRED 和 EXPIRED(GRACE)两种状态都属于密码过期状态。

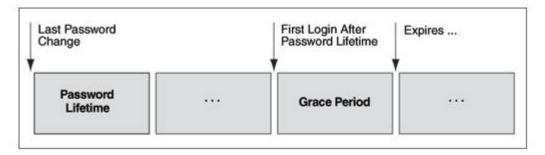


Figure 1 -Chronology of Password Lifetime and Grace Period

#### 一、 EXPIRED

密码是否过期是通过修改 PROFILE 中的 PASSWORD\_LIFE\_TIME 实现的,密码过期后还可以使用的天数是通过PROFILE 中的 PASSWORD GRACE TIME 控制的。

关于密码过期我们也可以使用 SQL 显式的去完成,简单演示一下。

		PIRY_DATE from dba_users where us	Jername Emilioro ,
JSERNAME	ACCOUNT_STATUS	EXPIRY_DATE	
LHRSYS	OPEN		
SYS@lhrdb> alter	user lhrsys password expire;		
Jser altered.			
SYS@lhrdb> select	username, account_status,EX	PIRY_DATE from dba_users where us	sername = 'LHRSYS';
USERNAME	ACCOUNT_STATUS	EXPIRY_DATE	
LHRSYS	EXPIRED	2016-12-01 16:29:01	
ERROR: ORA-28001: the pa			
	l for lhrsys		
New password: Retype new passwo			
New password: Retype new passwo Password changed			
Changing password New password: Retype new passwo Password changed Connected.  LHRSYS@lhrdb> con Connected.	ord: nn / as sysdba		
New password: Retype new passwo Password changed Connected.  LHRSYS@lhrdb> con Connected.	ord: nn / as sysdba	PIRY_DATE from dba_users where us	sername = 'LHRSYS';
New password: Retype new passwo Password changed Connected.  LHRSYS@lhrdb> con Connected.	ord: nn / as sysdba	PIRY_DATE from dba_users where us EXPIRY_DATE	sername = 'LHRSYS';

#### 下面通过修改系统的日期来演示:

```
SYS@lhrdb> SELECT D.USERNAME,
 2
    D.ACCOUNT STATUS,
 3
         D.LOCK DATE,
 4
          D.EXPIRY DATE,
          D.PROFILE,
 6
          NVL (D. PASSWORD,
 7
             (SELECT NB.PASSWORD FROM USER$ NB WHERE NB.NAME = D.USERNAME)) PASSWORD
 8
     FROM DBA USERS D
    WHERE D.USERNAME = 'LHRSYS';
USERNAME
                   ACCOUNT_STATUS
                                       LOCK_DATE
                                                    EXPIRY_DATE
                                                                 PROFILE
                                                                                    PASSWORD
                   OPEN
                                                                                    F809740420A44EFC
LHRSYS
                                                                 DEFAULT
SYS@lhrdb> create profile TESTPROFILE LIMIT password_life_time 5 password_grace_time 0;<<<<<<-
里将 password_grace_time 设置为 0
Profile created.
SYS@lhrdb> alter user LHRSYS profile TESTPROFILE;
User altered.
SYS@lhrdb> select username,account_status,profile,EXPIRY_DATE from dba_users where username = 'LHRSYS';
                          ACCOUNT STATUS
USERNAME
                                                       PROFILE
                                                                                  EXPIRY DATE
LHRSYS
                          OPEN
                                                       TESTPROFILE
    --修改系统时间
[root@orcltest ~]# date '12071450'
Wed Dec 7 14:50:00 CST 2016
[root@orcltest ~]#
    系统查询:
SYS@lhrdb> select sysdate from dual;
SYSDATE
2016-12-07 14:50:19
SYS@lhrdb> conn LHRSYS/lhr
Connected.
LHRSYS@lhrdb> conn LHRSYS/lhr
Changing password for LHRSYS
New password:
Password unchanged
Warning: You are no longer connected to ORACLE.
@> conn / as sysdba
Connected.
SYS@lhrdb> select username,account status,profile,EXPIRY DATE from dba users where username = 'LHRSYS';
                          ACCOUNT_STATUS
                                                       PROFILE
                                                                                  EXPIRY_DATE
```

LH	HRSYS	EXPIRED	TESTPROFILE	2016-12-12 10:36:06
S	YS@lhrdb> alter user LHR	SYS identified by lhr;		
Us	ser altered.			
S	YS@lhrdb> select usernam	e,account_status,profile,EXN	PIRY_DATE from dba_users w	here username = 'LHRSYS';
US	SERNAME	ACCOUNT_STATUS	PROFILE	EXPIRY_DATE
LH	HRSYS	OPEN	TESTPROFILE	2016-12-12 14:52:54

### 二、 EXPIRED(GRACE)

当设置了 PASSWORD\_GRACE\_TIME 以后,第一次成功登录后到口令到期后有多少天时间可改变口令,在这段时间内,帐户被提醒修改口令并可以正常登陆,account\_status 显示为 EXPIRED(GRACE)。expired(grace) 与 locked(timed)是由系统的 profile 来进行控制的。

HRSYS			
	OPEN	TESTPROFILE	2016-12-07 14:09:09
SYS@lhrdb> select s	ysdate from dual;		
SYSDATE			
2016-12-02 14:09:32			
	ORILE MECMADACETTE LIMIT PAGGIO	rd grace time 3;	
SYSUINTAD> ALTER PRO	OFILE TESTPROFILE LIMIT passwor		
	OFILE LESIPROFILE LIMIT PASSWO.		
Profile altered.			
Profile altered.  SYS@lhrdb> SELECT *  2 FROM DBA_PRO	*		
Profile altered.  SYS@lhrdb> SELECT *  2 FROM DBA_PROFITE  3 WHERE D.PROFITE	* FILES D LE = 'TESTPROFILE'		
Profile altered.  SYS@lhrdb> SELECT *  2   FROM DBA_PROI  3   WHERE D.PROFI  4   AND (D.RESOU	* FILES D		
Profile altered.  SYS@lhrdb> SELECT *  2   FROM DBA_PROI  3   WHERE D.PROFI:  4   AND (D.RESOUR)  5   D.RESOUR)	* FILES D LE = 'TESTPROFILE' URCE_NAME LIKE '%PASSWORD%' OR		
Profile altered.  SYS@lhrdb> SELECT *  2   FROM DBA_PROI  3   WHERE D.PROFI  4   AND (D.RESOU	* FILES D LE = 'TESTPROFILE' URCE_NAME LIKE '%PASSWORD%' OR CE_NAME = 'FAILED_LOGIN_ATTEMP'	IS');	
Profile altered.  SYS@lhrdb> SELECT 7  2 FROM DBA_PROFIL  3 WHERE D.PROFIL  4 AND (D.RESOUR)  5 D.RESOUR  PROFILE  TESTPROFILE  TESTPROFILE	*  FILES D  LE = 'TESTPROFILE'  URCE_NAME LIKE '%PASSWORD%' OR  CE_NAME = 'FAILED_LOGIN_ATTEMP'  RESOURCE_NAME  FAILED_LOGIN_ATTEMPTS  PASSWORD_LIFE_TIME	rs');  RESOURCE LIMIT  PASSWORD DEFAULT  PASSWORD 5	
Profile altered.  SYS@lhrdb> SELECT *  2  FROM DBA_PROI  3  WHERE D.PROFIL  4  AND (D.RESOUR)  5  D.RESOUR)  PROFILE  TESTPROFILE  TESTPROFILE  TESTPROFILE	*  FILES D  LE = 'TESTPROFILE'  URCE_NAME LIKE '%PASSWORD%' OR  CE_NAME = 'FAILED_LOGIN_ATTEMP'  RESOURCE_NAME  FAILED_LOGIN_ATTEMPTS  PASSWORD_LIPE_TIME  PASSWORD_REUSE_TIME	rs');  RESOURCE LIMIT  PASSWORD DEFAULT  PASSWORD 5  PASSWORD DEFAULT	
Profile altered.  SYS@lhrdb> SELECT *  2   FROM DBA_PROFILE  4   AND (D.RESOUR)  5   D.RESOUR)  PROFILE  TESTPROFILE  TESTPROFILE  TESTPROFILE  TESTPROFILE  TESTPROFILE	*  FILES D  LE = 'TESTPROFILE'  URCE_NAME LIKE '%PASSWORD%' OR  CE_NAME = 'FAILED_LOGIN_ATTEMP'  RESOURCE_NAME  FAILED_LOGIN_ATTEMPTS  PASSWORD_LIKE_TIME  PASSWORD_REUSE_TIME  PASSWORD_REUSE_MAX	RESOURCE LIMIT PASSWORD DEFAULT PASSWORD DEFAULT PASSWORD DEFAULT PASSWORD DEFAULT	
Profile altered.  SYS@lhrdb> SELECT *  2  FROM DBA_PROI  3  WHERE D.PROFIL  4  AND (D.RESOUR)  5  D.RESOUR)  PROFILE  TESTPROFILE  TESTPROFILE  TESTPROFILE	*  FILES D  LE = 'TESTPROFILE'  URCE_NAME LIKE '%PASSWORD%' OR  CE_NAME = 'FAILED_LOGIN_ATTEMP'  RESOURCE_NAME  FAILED_LOGIN_ATTEMPTS  PASSWORD_LIPE_TIME  PASSWORD_REUSE_TIME	rs');  RESOURCE LIMIT  PASSWORD DEFAULT  PASSWORD 5  PASSWORD DEFAULT	

```
--修改系统时间
[root@orcltest ~] # date '12071408' <<<<<<-----14:09 过期,我们设置到 14:08 分
Wed Dec 7 14:08:00 CST 2016
[root@orcltest ~]#
   系统查询:
LHRSYS@lhrdb> select sysdate from dual;
SYSDATE
2016-12-07 14:08:03
LHRSYS@lhrdb> conn lhrsys/lhr
Connected.
LHRSYS@lhrdb> select sysdate from dual;
SYSDATE
LHRSYS@lhrdb> select sysdate from dual;
SYSDATE
2016-12-07 14:09:09
LHRSYS@lhrdb> select sysdate from dual;
SYSDATE
                1<<<<<<<<
LHRSYS@lhrdb> select username,account_status,profile,EXPIRY_DATE from dba_users where username = 'LHRSYS';
USERNAME
                       ACCOUNT STATUS
                                                PROFILE
                                                                         EXPIRY DATE
LHRSYS
                                                TESTPROFILE
<<<<<<、下面尝试第一次登陆
LHRSYS@lhrdb> conn lhrsys/lhr
ERROR:
                                         <<<<<<-----第一次登陆后报错,但用户依然可以登陆,且 EXPIRY_DATE
已经变化
Connected.
LHRSYS@lhrdb> select username, account_status, profile, EXPIRY_DATE from dba_users where username = 'LHRSYS';
USERNAME
                       ACCOUNT STATUS
                                                 PROFILE
                                                                         EXPIRY DATE
                                          TESTPROFILE
LHRSYS
<<<<<< -----再次查询状态, 变为了 EXPIRED (G
   再次调整日期:
[root@orcltest ~]# date '12081430'
Thu Dec 8 14:30:00 CST 2016
LHRSYS@lhrdb>
LHRSYS@lhrdb> select sysdate from dual;
```

```
SYSDATE
2016-12-08 14:30:12
LHRSYS@lhrdb> conn lhrsys/lhr
ERROR:
                                                <<<<<< 天
Connected.
LHRSYS@lhrdb>
   继续更改日期:
[root@orcltest ~]# date '12101409'
Sat Dec 10 14:09:00 CST 2016
[root@orcltest ~]#
   查询:
LHRSYS@lhrdb> select sysdate from dual;
SYSDATE
2016-12-10 14:09:07
LHRSYS@lhrdb> conn lhrsys/lhr
ERROR:
                                                <<<<<< > 5
Connected.
LHRSYS@lhrdb> select username, account_status, profile, EXPIRY_DATE from dba_users where username = 'LHRSYS';
USERNAME
                         ACCOUNT STATUS
                                                    PROFILE
                                                                              EXPIRY DATE
LHRSYS
                         EXPIRED (GRACE)
                                                    TESTPROFILE
LHRSYS@lhrdb> select sysdate from dual;
SYSDATE
                  <<<<< 日期已过
LHRSYS@lhrdb> conn lhrsys/lhr
ERROR:
Changing password for lhrsys
New password:
Password unchanged
Warning: You are no longer connected to ORACLE.
@> conn / as sysdba
Connected.
SYS@lhrdb>
SYS@lhrdb> select username,account_status,profile,EXPIRY_DATE from dba_users where username = 'LHRSYS';
USERNAME
                         ACCOUNT STATUS
                                                    PROFILE
                                                                             EXPIRY DATE
LHRSYS
                                                    TESTPROFILE
                                                                              2016-12-10 14:09:34
SYS@lhrdb> alter user LHRSYS identified by lhr;
```

### 1.3.2.3 组合状态

关于四种组合状态的解释

因为锁定的两种状态(LOCKED 和 LOCKED (TIMED))和密码过期的两种状态(EXPIRED 和 EXPIRED (GRACE)) 之间没有关系。因此他们之间可以任意组合,2×2=4,因此有四种组合状态:

- 5 EXPIRED & LOCKED (TIMED)
- 6 EXPIRED (GRACE) & LOCKED (TIMED)
- 9 EXPIRED & LOCKED
- 10 EXPIRED (GRACE) & LOCKED

#### -, EXPIRED & LOCKED

EXPIRED & LOCKED 状态表示用户密码过期且同时处于锁定状态

SYS@lhrdb> select usern	name,account_status,EXPIRY_	_DATE,lock_date from	m dba_users where username = 'LHRSYS';
USERNAME	ACCOUNT_STATUS	EXPIRY_DATE	LOCK_DATE
LHRSYS SYS@lhrdb>	OPEN	2016-12-07 15:02	:56
	lhrsys password expire;		
User altered.			
SYS@lhrdb> select usern	name,account_status,EXPIRY_	_DATE,lock_date from	m dba_users where username = 'LHRSYS';
USERNAME	ACCOUNT_STATUS	EXPIRY_DATE	LOCK_DATE
LHRSYS	EXPIRED	2016-12-02 15:11	:12
SYS@lhrdb> alter user	lhrsys account lock;		
User altered.			
SYS@lhrdb> select user	name, account_status,EXPIR	Y_DATE from dba_use	ers where username = 'LHRSYS';
USERNAME	ACCOUNT_STATUS	EXPIRY_DATE	
LHRSYS	EXPIRED & LOCKED	2016-12-01 16:51	:38
SYS@lhrdb> alter user	lhrsys account unlock;		
User altered.			

### 二、 EXPIRED & LOCKED(TIMED)

EXPIRED & LOCKED (TIMED) 状态表示用户密码过期后,错误密码尝试次数超过 PROFILE 中的 FAILED LOGIN ATTEMPTS 的限制

USERNAME	ACCOUNT_STATUS	EXPIRY_DATE	LOCK_DATE
LHRSYS	OPEN		
SYS@lhrdb> alter use	r lhrsys password expire;		
User altered.			
SYS@lhrdb> select us	ername, account_status,EXP	PIRY_DATE from dba_users	s where usernam
USERNAME	ACCOUNT_STATUS	EXPIRY_DATE	
LHRSYS	EXPIRED	2016-12-02 10:07:2	- 7
ERROR:	SYS/XXXX@192.168.59.129/lh		
<pre>@&gt; CONN LHRSYS/XXXX</pre> ERROR:	longer connected to ORACLE @192.168.59.129/lhrdb sername/password; logon de		
@> CONN LHRSYS/XXXX	@192.168.59.129/lhrdb		

```
ERROR:
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ERROR:
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ERROR:
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ERROR:
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ERROR:
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ERROR.
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ORA-01017: invalid username/password; logon denied
@> conn / as sysdba
Connected.
SYS@lhrdb> select username, account status, EXPIRY DATE, lock date from dba users where username = 'LHRSYS';
USERNAME
                            ACCOUNT STATUS
                                                          EXPIRY DATE
                                                                            LOCK DATE
LHRSYS
SYS@lhrdb>
SYS@lhrdb> alter user lhrsys account unlock;
User altered.
SYS@lhrdb> select username, account_status, EXPIRY_DATE, lock_date from dba_users where username = 'LHRSYS';
USERNAME
                        ACCOUNT_STATUS
                                                   EXPIRY_DATE
                                                                 LOCK DATE
                        EXPIRED
                                                   2016-12-02 10:07:27
LHRSYS
SYS@lhrdb> alter user lhrsys identified by lhr;
User altered.
SYS@lhrdb> select username, account_status, EXPIRY_DATE, lock_date from dba_users where username = 'LHRSYS';
USERNAME
                         ACCOUNT_STATUS
                                                   EXPIRY_DATE
                                                                   LOCK_DATE
LHRSYS
                        OPEN
```

SYS@lhrdb>

### Ξ、 EXPIRED(GRACE) & LOCKED

EXPIRED (GRACE) & LOCKED 状态表示用户在密码过期后的有效期内被 DBA 手工锁定。

	ect username, account_status, prof	file,EXPIRY_DATE fr	om dba_users where username = 'LHR
USERNAME	ACCOUNT_STATUS	PROFILE	EXPIRY_DATE
LHRSYS	OPEN	TESTPROFILE	2016-12-07 14:39:20
LHRSYS@lhrdb> sel	ect sysdate from dual;		
SYSDATE			
2016-12-07 14:39:	 17		
LHRSYS@lhrdb> sel	ect sysdate from dual;		
SYSDATE			
2016-12-07 14:39:	<del></del> 25		
LHRSYS@lhrdb> sele	ect username,account_status,proi	File,EXPIRY_DATE fr	om dba_users where username = 'LHRS
USERNAME 	ACCOUNT_STATUS	PROFILE	EXPIRY_DATE
LHRSYS	OPEN	TESTPROFILE	2016-12-07 14:39:20
	ssword will expire within 3 day		
ERROR:  ORA-28002: the pa  Connected.		file,EXPIRY_DATE fr	om dba_users where username = 'LHRS
ERROR:  ORA-28002: the pa  Connected.  LHRSYS@lhrdb> sele		File,EXPIRY_DATE fr PROFILE	om dba_users where username = 'LHRS EXPIRY_DATE
ERROR:  ORA-28002: the pa  Connected.  LHRSYS@lhrdb> sele  USERNAME	ssword will expire within 3 day ect username, account_status, prof	_	_
ERROR:  DRA-28002: the pa  Connected.  LHRSYS@lhrdb> sele  USERNAME	ect username, account_status, prof	PROFILE	EXPIRY_DATE
ERROR:  ORA-28002: the pa  Connected.  LHRSYS@lhrdb> sele  USERNAME  LHRSYS  LHRSYS	ect username, account_status, prof  ACCOUNT_STATUS  EXPIRED(GRACE)	PROFILE	EXPIRY_DATE
USERNAME  LHRSYS  LHRSYS@lhrdb> alt  User altered.	ACCOUNT_STATUS  EXPIRED(GRACE)  er user lhrsys account lock;	PROFILE TESTPROFILE	EXPIRY_DATE
ERROR:  ORA-28002: the pa  Connected.  LHRSYS@lhrdb> sele  USERNAME   LHRSYS  LHRSYS@lhrdb> alt  User altered.	ACCOUNT_STATUS  EXPIRED(GRACE)  er user lhrsys account lock;	PROFILE TESTPROFILE	EXPIRY_DATE
ERROR:  ORA-28002: the pa  Connected.  LHRSYS@lhrdb> select  USERNAME   LHRSYS  LHRSYS@lhrdb> alt  User altered.  SYS@lhrdb> select	ACCOUNT_STATUS  EXPIRED(GRACE)  er user lhrsys account lock;  t username, account_status, EXPIRE	PROFILE TESTPROFILE  TESTPROFILE	EXPIRY_DATE
ERROR:  ORA-28002: the pa  Connected.  LHRSYS@lhrdb> select  USERNAME  LHRSYS@lhrdb> alt  User altered.  SYS@lhrdb> select  USERNAME  USERNAME	ACCOUNT_STATUS  EXPIRED(GRACE)  er user lhrsys account lock;  t username, account_status, EXPIRE	PROFILE TESTPROFILE  TESTPROFILE	EXPIRY_DATE
ERROR: DRA-28002: the pa  Connected. LHRSYS@lhrdb> select  JSERNAME	ACCOUNT_STATUS  EXPIRED(GRACE)  er user lhrsys account lock;  t username, account_status, EXPIRE	PROFILE TESTPROFILE  TESTPROFILE	EXPIRY_DATE
ERROR:  DRA-28002: the pa  Connected.  LHRSYS@lhrdb> select  USERNAME  LHRSYS@lhrdb> alt  User altered.  SYS@lhrdb> select  USERNAME  LHRSYS@lhrdb> select	ACCOUNT_STATUS  er user lhrsys account lock;  ACCOUNT_STATUS  EXPIRED(GRACE)  ACCOUNT_STATUS  ACCOUNT_STATUS	PROFILE TESTPROFILE  TESTPROFILE	EXPIRY_DATE

USERNAME	ACCOUNT_STATUS	PROFILE	EXPIRY_DATE
LHRSYS	EXPIRED (GRACE)	TESTPROFILE	2016-12-10 14:39:54
LHRSYS@lhrdb> alter user	LHRSYS identified by lhr;		
User altered.			
LHRSYS@lhrdb> select user	name,account_status,profile,	EXPIRY_DATE from dba_users	<pre>where username = 'LHRSYS';</pre>
USERNAME	ACCOUNT_STATUS	PROFILE	EXPIRY_DATE
LHRSYS	OPEN	TESTPROFILE	2016-12-12 14:40:46
LHRSYS@lhrdb>			

### 四、 EXPIRED(GRACE) & LOCKED(TIMED)

EXPIRED(GRACE) & LOCKED(TIMED)状态表示用户在密码过期后的有效期内,失败登录次数超过 PROFILE 中的 FAILED LOGIN ATTEMPTS 的限制。

```
SYS@lhrdb> select username,account status,EXPIRY DATE,lock date from dba users where username = 'LHRSYS';
USERNAME
                          ACCOUNT_STATUS
                                                       EXPIRY_DATE
                                                                       LOCK_DATE
                                                       2016-12-07 14:50:06
LHRSYS
                          OPEN
LHRSYS@lhrdb> select sysdate from dual;
SYSDATE
2016-12-02 14:50:13
    修改系统日期:
[root@orcltest ~]# date '12071450'
Wed Dec 7 14:50:00 CST 2016
[root@orcltest ~]#
    查询:
LHRSYS@lhrdb> select sysdate from dual;
SYSDATE
2016-12-07 14:50:03
LHRSYS@lhrdb> select sysdate from dual;
SYSDATE
2016-12-07 14:50:12
SYS@lhrdb> select username, account status, EXPIRY DATE, lock date from dba users where username = 'LHRSYS';
USERNAME
                           ACCOUNT_STATUS
                                                       EXPIRY_DATE
                                                                         LOCK_DATE
LHRSYS
                          OPEN
                                                       2016-12-07 14:50:06
LHRSYS@lhrdb> conn lhrsys/lhr
ERROR:
```

```
ORA-28002: the password will expire within 3 days
Connected.
SYS@lhrdb> select username, account_status, EXPIRY_DATE, lock_date from dba_users where username = 'LHRSYS';
USERNAME
                          ACCOUNT STATUS
                                                      EXPIRY DATE
                                                                       LOCK DATE
LHRSYS
                                                      2016-12-10 14:50:21
LHRSYS@lhrdb> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ORA-01017: invalid username/password; logon denied
Warning: You are no longer connected to ORACLE.
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ERROR:
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ERROR:
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ERROR:
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ERROR:
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ERROR:
ORA-01017: invalid username/password; logon denied
@> @> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ERROR:
```

ORA-28000: the account is locked @> conn / as sysdba Connected. SYS@lhrdb> select username,account status,EXPIRY DATE,lock date from dba users where username = 'LHRSYS'; USERNAME ACCOUNT\_STATUS EXPIRY DATE LOCK DATE LHRSYS 2016-12-10 14:50:21 SYS@lhrdb> alter user lhrsys account unlock; User altered. SYS@lhrdb> select username,account status,profile,EXPIRY DATE from dba users where username = 'LHRSYS'; USERNAME ACCOUNT\_STATUS PROFILE EXPIRY\_DATE LHRSYS EXPIRED (GRACE) TESTPROFILE 2016-12-10 14:50:21 SYS@lhrdb> alter user LHRSYS identified by lhr; User altered. SYS@lhrdb> select username,account status,profile,EXPIRY DATE from dba users where username = 'LHRSYS'; USERNAME ACCOUNT\_STATUS PROFILE EXPIRY\_DATE LHRSYS OPEN TESTPROFILE 2016-12-12 14:55:04

#### 1. 3. 3 在不知道用户密码的情况下如何更改密码

在 Oracle 中,若用户的密码变为锁定状态(LOCKED、LOCKED(TIMED))则 DBA 直接执行 ALTER USER 用户 名 ACCOUNT UNLOCK 就可以解锁了。但是,如果用户的状态变成过期状态(EXPIRED、EXPIRED (GRACE) ),则 DBA 必须要更改用户的密码账户才能重新使用。但有些时候,因为各种原因并不知道原密码的明文是什么,这时候可 以有如下2种办法来更新密码。

#### 用原密码的密文来更改密码 1, 3, 3, 1

在 Oracle 10g 中,DBA USERS 视图的 PASSWORD 字段提供了密码的密文形式,而在 Oracle 11g 中,该字 段被弃用了,内容为空,但是在基表 USER\$中的 PASSWORD 字段依然有记录密文形式,所以可以通过如下的形式来 获取密码的密文形式:

SELECT D.USERNAME, D.ACCOUNT STATUS, D.LOCK DATE, D.EXPIRY DATE, D.PROFILE, NVL (D. PASSWORD,

(SELECT NB.PASSWORD FROM USER\$ NB WHERE NB.NAME = D.USERNAME)) PASSWORD

FROM DBA\_USERS D
WHERE D.USERNAME = 'LHRSYS';



另外,可以通过 DBMS\_METADATA.GET\_DDL 包或者 expdp、exp 命令来获取创建用户的语句从而获取密码的密文形式:

```
SYS@lhrdb> set long 9999

SYS@lhrdb> SELECT DBMS_METADATA.GET_DDL('USER', 'LHRSYS') DDL_SQL FROM DUAL;

DDL_SQL

CREATE USER "LHRSYS" IDENTIFIED BY VALUES

'S:853EA80BAB11E79B6946453F38059E30313FE84C96AE2EE4F3AA35A648BD,F809740420A44EFC'

DEFAULT TABLESPACE "USERS"

TEMPORARY TABLESPACE "TEMP"

SYS@lhrdb>
SYS@lhrdb>
SYS@lhrdb>
```

获取了密码的密文后就可以用如下的命令来修改了,注意:使用密文的命令中多了一个 values 关键字:

```
SYS@lhrdb> alter user LHRSYS identified by values 'F809740420A44EFC';

User altered.

SYS@lhrdb> CONN LHRSYS/lhr@192.168.59.129/lhrdb
Connected.

LHRSYS@192.168.59.129/lhrdb> conn / as sysdba
Connected.

SYS@lhrdb> alter user LHRSYS identified by values
'S:853EA80BAE11F79D6946453F38059E30313FE84C96AE2EE4F3AA35A648BD;F809740420A44EFC';

User altered.

SYS@lhrdb> CONN LHRSYS/lhr@192.168.59.129/lhrdb
Connected.
LHRSYS@192.168.59.129/lhrdb>
```

这种情况下,虽然我们不知道原密码是什么,但可以用它的密文来更改密码,这样,在不知道原密码的情况下, 既保持了密码不改变,又可以把 expired 的状态更改掉。

在 MOS The Impact of PASSWORD\_LIFE\_TIME Database Profile Parameter Default to 180 Days on Network Charging and Control (文档 ID 1543668.1)中搜到了如下的命令也可以直接获取密码:

```
FROM (SELECT NAME,

'alter user ' || NAME || ' identified by values ''' ||

PASSWORD || '''; ' SQLTEXT

FROM USER$

WHERE SPARE4 IS NULL

AND PASSWORD IS NOT NULL

UNION

SELECT NAME,
```

'alter user ' || NAME || ' identified by values ''' || SPARE4 || ';' ||

```
PASSWORD || '''; ' SQLTEXT
             FROM USER$
            WHERE SPARE4 IS NOT NULL
              AND PASSWORD IS NOT NULL)
    WHERE NAME = 'LHRSYS';
SYS@lhrdb> SELECT SQLTEXT
 2
     FROM (SELECT NAME,
                'alter user ' || NAME || ' identified by values ''' ||
 3
                PASSWORD || ''';' SQLTEXT
 4
            FROM USER$
           WHERE SPARE4 IS NULL
 6
 7
            AND PASSWORD IS NOT NULL
          UNION
 9
          SELECT NAME,
10
                'alter user ' || NAME || ' identified by values ''' || SPARE4 || ';' ||
                PASSWORD || '''; ' SQLTEXT
11
12
            FROM USER$
13
           WHERE SPARE4 IS NOT NULL
            AND PASSWORD IS NOT NULL)
14
15
    WHERE NAME = 'LHRSYS';
SQLTEXT
```

### 1.3.3.2 直接更新 USER\$基表

不管用户的状态是什么,通过更新 USER\$表可以让用户处于 OPEN 状态:

```
SYS@lhrdb> select username, account_status, EXPIRY_DATE, lock_date from dba_users where username = 'LHRSYS';
USERNAME
                            ACCOUNT STATUS
                                                          EXPIRY DATE
                                                                            LOCK DATE
LHRSYS
                            EXPIRED
                                                          2016-12-02 10:40:09
SYS@lhrdb> UPDATE USER$ SET ASTATUS=0 WHERE NAME='LHRSYS';
1 row updated.
SYS@lhrdb> commit; <<<<<----及时提交
Commit complete.
SYS@lhrdb> select username, account_status, EXPIRY_DATE, lock_date from dba_users where username = 'LHRSYS';
USERNAME
                            ACCOUNT STATUS
                                                          EXPIRY DATE
                                                                             LOCK DATE
LHRSYS
                            OPEN
SYS@lhrdb>
```

## 1.3.4 user\$.1COUNT 列记录了失败的登陆次数

登录失败, lcount 加 1; 只要成功登录后, lcount 栏位就会置 0。

```
SYS@lhrdb> select NAME, LCOUNT from user$ a WHERE a.NAME='LHRSYS';
NAME
                         LCOUNT
0
LHRSYS
SYS@lhrdb> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ORA-01017: invalid username/password; logon denied
Warning: You are no longer connected to ORACLE.
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ERROR:
ORA-01017: invalid username/password; logon denied
@> conn / as sysdba
Connected.
SYS@lhrdb> select NAME, LCOUNT from user$ a WHERE a.NAME='LHRSYS';
                         LCOUNT
LHRSYS
                     2
SYS@lhrdb>
SYS@lhrdb> CONN LHRSYS/lhr
Connected.
LHRSYS@lhrdb> conn / as sysdba
SYS@lhrdb> select NAME, LCOUNT from user$ a WHERE a.NAME='LHRSYS';
                         LCOUNT
                      0
LHRSYS
SYS@lhrdb>
```

### 另外,审计表也记录了登陆失败的信息:

```
SELECT d.username,d.timestamp,d.action_name,d.os_username,d.terminal
  FROM DBA_AUDIT_TRAIL D
WHERE D.RETURNCODE = 1017
AND D.USERNAME = 'LHRSYS'
ORDER BY d.timestamp DESC ;
```

	USERNAME		TIMESTAMP	ACTION_NAME		OS_USERNAME	TERMINAL	
18	LHRSYS	***	2016-12-02 11:02:50 *	LOGON	1	oracle	 pts/1	
19	LHRSYS	***	2016-12-02 11:02:48 *	LOGON		oracle	 pts/1	40
20	LHRSYS	***	2016-12-02 11:02:46 *	LOGON	***	oracle	 pts/1	10
21	LHRSYS	***	2016-12-02 11:02:45 *	LOGON	***	oracle	 pts/1	30
22	LHRSYS	***	2016-12-02 11:02:45	LOGON	***	oracle	 pts/1	10
23	LHRSYS	***	2016-12-02 10:09:03 *	LOGON	***	oracle	 pts/1	ns.
24	LHRSYS	***	2016-12-02 10:08:33 *	LOGON	***	oracle	 pts/1	10
25	LHRSYS	***	2016-12-02 10:08:25 *	LOGON	***	oracle	 pts/1	10
26	LHRSYS	***	2016-12-02 10:08:19 -	LOGON		oracle	 pts/1	80
27	LHRSYS	***	2016-12-02 10:08:14 *	LOGON		oracle	 pts/1	83
28	LHRSYS		2016-12-02 10:08:09 -	LOGON		oracle	 nts/1	4

## 1.3.5 11g 密码区分大小写--sec\_case\_sensitive\_logon

从 Oracle 11g 开始,密码区分大小写,采用参数 sec case sensitive logon 控制,该参数默认为 TRUE。

Property		Description
Parameter type		Boolean
Default value		true
Modifiable	// \	ALTER SYSTEM
Range of values		true   false
Basic	(/,/	No

 ${\tt SEC\_CASE\_SENSITIVE\_LOGON\ enables\ or\ disables\ password\ case\ sensitivity\ in\ the\ database.}$ 

Values:

true: Database logon passwords are case sensitive.

false: Database logon passwords are not case sensitive.

注意:从 Oracle 12c 开始,参数 SEC\_CASE\_SENSITIVE\_LOGON 已经废弃,无论其值设置为 TRUE 还是 FALSE,用户密码均区分大小写。

## 1.3.6 密码延迟验证

从 11g 开始,如果一个用户使用不正确的密码尝试登录数据库,那么随着登录失败次数的增加,每次登录验证前延迟等待的时间也会增加。

通过设置 EVENTS 28401 可以屏蔽密码延迟验证:

SQL> ALTER SYSTEM SET EVENT = '28401 TRACE NAME CONTEXT FOREVER, LEVEL 1' SCOPE = SPFILE;

设置该事件后重启数据库即可。

```
[oracle@orcltest ~]$ oerr ora 28401
28401, 00000, "Event to disable delay after three failed login attempts"
// *Document: NO
// *Cause: N/A
```

```
// *Action: Set this event in your environment to disable the login delay
// which will otherwise take place after three failed login attempts.
// *Note: THIS IS NOT A USER ERROR NUMBER/MESSAGE. THIS DOES NOT NEED TO BE
// TRANSLATED OR DOCUMENTED.
[oracle@orcltest ~]$
```

## 1.3.7 哪些用户密码没有被修改过

Oracle 在 11g 中对于安全方面进行了很大的改进,比如增加了密码大小写验证,增加了密码复杂度的验证等等。在 Oracle 11g 中还提供了一个视图 DBA\_USERS\_WITH\_DEFPWD 用来指出那些用户的密码没有被修改过,仍然是数据库默认密码。Oracle 并不是简单的监测是否密码被修改,而是检查密码是否修改为别的值,如果新密码和旧密码保持一致,那么即使密码被修改,这个用户仍然在 DBA USERS WITH\_DEFPWD 视图中。

SELECT \* FROM DBA\_USERS\_WITH\_DEFPWD;

I		USERNAME	
•	1	DIP	
	2	XS\$NULL	
	3	MDSYS	
	4	SPATIAL_WFS_ADMIN_USR	
		OUTLN	
	6	CTXSYS	
	7	OLAPSYS	
	8	SPATIAL_CSW_ADMIN_USR	
	9	OWBSYS	
	10	ORACLE_OCM	
	11	EXFSYS	
	12	SCOTT	
	13	DBSNMP	
		ORDSYS	
	15	ORDPLUGINS	
	16	MDDATA	
	17	PM	
	18	APPQOSSYS	
	19	XDB	
	20	ORDDATA	
	21	IX	
	22	BI	
	23	WMSYS	
	24	SI_INFORMTN_SCHEMA	

## 1.3.8 密码复杂性校验

脚本位置: \$ORACLE HOME/rdbms/admin/utlpwdmg.sql



utlpwdmg.sql

```
[oracle@orcltest ~]$ 11 $ORACLE_HOME/rdbms/admin/utlpwdmg.sql -rw-r--r- 1 oracle oinstall 11555 Aug 13 2006 /u02/app/oracle/product/11.2.0/dbhome_1/rdbms/admin/utlpwdmg.sql [oracle@orcltest ~]$

SYS@lhrdb> @?/rdbms/admin/utlpwdmg.sql
```

```
Function created.

Profile altered.

Function created.

SYS@lhrdb>
```

#### 该脚本中有如下的一段:

```
ALTER PROFILE DEFAULT LIMIT

PASSWORD_LIFE_TIME 180

PASSWORD_GRACE_TIME 7

PASSWORD_REUSE_TIME UNLIMITED

PASSWORD_REUSE_MAX UNLIMITED

FAILED_LOGIN_ATTEMPTS 10

PASSWORD_LOCK_TIME 1

PASSWORD_VERIFY_FUNCTION verify_function_11G;
```

### 更改之后查看:

```
SYS@lhrdb> SELECT * FROM Dba Profiles d WHERE d.profile='DEFAULT';
PROFILE
                                                     RESOURCE LIMIT
                         RESOURCE NAME
                                                     KERNEL UNLIMITED
DEFAULT
                         COMPOSITE_LIMIT
DEFAULT
                         SESSIONS PER USER
                                                     KERNEL UNLIMITED
DEFAULT
                         CPU_PER_SESSION
                                                     KERNEL UNLIMITED
                                                     KERNEL UNLIMITED
DEFAULT
                         CPU PER CALL
                                                     KERNEL UNLIMITED
DEFAULT
                         LOGICAL READS PER SESSION
                                                     KERNEL UNLIMITED
                         LOGICAL_READS_PER_CALL
DEFAULT
                                                     KERNEL UNLIMITED
DEFAULT
                         IDLE_TIME
DEFAULT
                         CONNECT TIME
                                                     KERNEL UNLIMITED
                         PRIVATE SGA
                                                     KERNEL UNLIMITED
DEFAULT
DEFAULT
                         FAILED_LOGIN_ATTEMPTS
                                                     PASSWORD 10
DEFAULT
                         PASSWORD_LIFE_TIME
                                                     PASSWORD 180
DEFAULT
                         PASSWORD REUSE TIME
                                                     PASSWORD UNLIMITED
DEFAULT
                         PASSWORD_REUSE_MAX
                                                     PASSWORD UNLIMITED
                          PASSWORD LOCK TIME
                                                     PASSWORD 1
DEFAULT
DEFAULT
                         PASSWORD GRACE TIME
                                                     PASSWORD 7
16 rows selected.
SYS@lhrdb> create user lhrpwd identified by lhr;
create user lhrpwd identified by lhr
ERROR at line 1:
ORA-28003: password verification for the specified password failed
ORA-20001: Password length less than 8
SYS@lhrdb>
Profile altered.
SYS@lhrdb> create user lhrpwd identified by lhr;
User created.
```

SYS@lhrdb> alter profile default limit PASSWORD\_VERIFY\_FUNCTION VERIFY\_FUNCTION\_11G; <<<<<-------启用密码复杂性验证

Profile altered.

SYS@lhrdb>

### 1.3.9 resource limit

### 官方文档资料:

To create a profile, you must have the CREATE PROFILE system privilege.

To specify resource limits for a user, you must:

- •Enable resource limits dynamically with the ALTER SYSTEM statement or with the initialization parameter RESOURCE\_LIMIT. This parameter does not apply to password resources. Password resources are always enabled.
  - •Create a profile that defines the limits using the CREATE PROFILE statement
  - •Assign the profile to the user using the CREATE USER or ALTER USER statement

### 1) 用户所有拥有的 PROFILE 中有关密码的限制永远生效,不受限制。

2)用户所有拥有的PROFILE中有关资源的限制与resource\_limit参数的设置有关,当为TRUE时生效,当为FALSE时(默认值是FALSE)无效。在Oracle 12c之前该参数默认为FALSE,而从12c开始,该参数默认为TRUE。

#### About Me

- 本文作者:小麦苗,只专注于数据库的技术,更注重技术的运用
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