Oracle 手动建库常见问题

1.1 **BLOG 文档结构图**

▲ Oracle 手动建库常见问题

100	_					_
11	RI	OG	17	料结	27	18

▲ 1.2 前言部分

1.2.1 导读和注意事项

1.2.2 相关参考文章链接

- 1.3 本文简介
- 1.4 手动建库简介
- 1.5 手动建库基本步骤
- ▲ 1.6 直接给出脚本
 - 4 1.6.1 11G
 - 1.6.1.1 ORACLE 用户执行 数据文件在文件系统 单实例 DB
 - 1.6.1.2 ORACLE 用户执行 数据文件在 ASM 中 单实例 DB
 - 1.6.1.3 11G rac asm
 - 1.6.2 10G
 - 1.6.3 创建 bigfile 的 db 报错
 - 1.7 手动建库中的组件安装
 - 1.8 如何安装 Sample Schemas
- 1.9 手动建库中常用脚本的解释
- 1.10 关于 sqlplus 的帮助命令

About Me

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 10G 和 11g **手动建库(重点)**
- ② 各种组件安装
- ③ 创建 Sample Schemas 数据
- ④ 手动建库中常用脚本的解释

⑤ sqlplus 中的帮助命令

Tips:

- ① 本文在 ITpub (http://blog.itpub.net/26736162) 和博客园 (http://www.cnblogs.com/lhrbest) 有同步更新
- ② 文章中用到的所有代码,相关软件,相关资料请前往小麦苗的云盘下载

(http://blog.itpub.net/26736162/viewspace-1624453/)

- ③ 若文章代码格式有错乱,推荐使用搜狗、360或QQ浏览器,也可以下载pdf格式的文档来查看,pdf文档下载地址: http://blog.itpub.net/26736162/viewspace-1624453/
- ④ 本篇 BLOG 中命令的输出部分需要特别关注的地方我都用灰色背景和粉红色字体来表示,比如下边的例子中, thread 1 的最大归档日志号为 33, thread 2 的最大归档日志号为 43 是需要特别关注的地方;而命令一般使用黄

<mark>色背景和红色字体</mark>标注;对代码或代码输出部分的注释一般采用蓝色字体表示。

2	1621589	2015-05-29 11:09:52		2015-05-29 11:15:48	
33 42	1625242 1613951	2015-05-29 11:15:48 2015-05-29 10:41:18		2015-05-29 11:15:58 2015-05-29 11:15:49	
43	1625245	2015-05-29 11:15:49	1625253	2015-05-29 11:15:53	
$VDD1 \cdot IQC$	ot]:/> <mark>lsvg</mark> vg	-0			

本文如有错误或不完善的地方请大家多多指正,ITPUB 留言或 QQ 皆可,您的批评指正是我写作

的最大动力。

1.3 本文简介

上一篇 (http://blog.itpub.net/26736162/viewspace-2121930/) 中最后差了手动建库的部分,今天把这

个部分的内容加上。本来手动建库很早就学习过了,只是一直没有时间来整理发布,今天就趁这个机会正好整理一下, 分享给大家。

小麦苗学习手动建库的动力源于之前帮网友采用 dbca 建库的时候报错,由于 java 环境的问题,dbca 一直没有办法使用,无论界面还是静默都用到 java,折腾了 2个小时还是把 java 没有修复好,dbca 不能用,最后想到了create database 手动建库,虽然工作中很少采用但还是有一定的用途的。

1.4 手动建库简介

有时候因为环境的缘故不能使用图形界面或者不能使用 dbca 的静默方式来创建一个新库,那么这个时候可以考虑使用 CREATE DATABASE SQL 命令行来创建数据库,该方式是一种手动建库方式,使用此种命令行手动创建数据库的优点是:可以用脚本来创建数据库。 另外 OCM 的考试中要求我们用 CREATE DATABASE 来创建数据库。当然在使用脚本创建数据库时,在建立数据字典视图和安装标准的 PL/SQL 程序包时,必须先建立一个可以操作的数据库。

1.5 手动建库基本步骤

官方文档的步骤:

Step 1: Specify an Instance Identifier (SID)

Step 2: Ensure That the Required Environment Variables Are Set

Step 3: Choose a Database Administrator Authentication Method

Step 4: Create the Initialization Parameter File

Step 5: (Windows Only) Create an Instance

Step 6: Connect to the Instance

Step 7: Create a Server Parameter File

Step 8: Start the Instance

Step 9: Issue the CREATE DATABASE Statement

Step 10: Create Additional Tablespaces

Step 11: Run Scripts to Build Data Dictionary Views

Step 12: (Optional) Run Scripts to Install Additional Options

Step 13: Back Up the Database.

Step 14: (Optional) Enable Automatic Instance Startup

具体可以参考: http://docs.oracle.com/cd/E11882_01/server.112/e25494/create.htm

我的 blog:http://blog.itpub.net/26736162/viewspace-2098211/

1.6 **直接给出脚本**

我们直接给出手动建库用到的脚本,至于过程小麦苗就不演示了。

1. 6. 1 11G

1.6.1.1 ORACLE 用户执行 数据文件在文件系统 单实例 DB

-----1、 确保环境变量正确

```
export ORACLE_SID=1hrdb
env|grep ORACLE

ORACLE_SID=1hrdb
ORACLE_BASE=/u01/app/oracle
ORACLE_HOME=/u01/app/oracle/product/11.2.0/dbhome_1
```

----- 2、 创建密码文件

orapwd file=\$ORACLE_HOME/dbs/orapwlhrdb password=lhr force=y

-----3、 创建初始化参数文件和相关路径

```
$ORACLE_HOME/dbs/initlhrdb.ora
db_name='lhrdb'
memory_target=400437056
processes = 150
audit_file_dest='/u01/app/oracle/admin/lhrdb/adump'
audit_trail ='db'
db_block_size=8192
db_domain=''
db_create_file_dest='/u01/app/oracle/oradata'
db_recovery_file_dest='/u01/app/oracle/flash_recovery_area'
db_recovery_file_dest_size=2G
diagnostic_dest='/u01/app/oracle'
dispatchers='(PROTOCOL=TCP) (SERVICE=MYNEWDBXDB)'
open_cursors=300
remote_login_passwordfile='EXCLUSIVE'
undo_tablespace='UNDOTBS1'
control_files =
/u01/app/oracle/oradata/lhrdb/control01.ctl','/u01/app/oracle/flash_recovery_area/lhrdb/control02.
```

compatible ='11.2.0'

```
mkdir -p /u01/app/oracle/admin/lhrdb/adump
mkdir -p /u01/app/oracle/flash_recovery_area/lhrdb/
mkdir -p /u01/app/oracle/oradata/lhrdb/
```

----- 4、 创建 spfile , 启动到 nomount 状态

```
sqlplus / as sysdba
create spfile from pfile;
startup nomount
! ps -ef|grep lhrdb
```

----- 5、 **创建** DB

```
CREATE DATABASE 1hrdb
USER SYS IDENTIFIED BY 1hr
USER SYSTEM IDENTIFIED BY 1hr
CONTROLFILE REUSE
CHARACTER SET ZHS16GBK
NATIONAL CHARACTER SET AL16UTF16
EXTENT MANAGEMENT LOCAL
ARCHIVELOG
MAXLOGFILES 192 MAXLOGMEMBERS 5 MAXLOGHISTORY 292 MAXDATAFILES 1024 MAXINSTANCES 32
LOGFILE GROUP
1('/u01/app/oracle/oradata/lhrdb/redo01a.log','/u01/app/oracle/oradata/lhrdb/redo01b.log') SIZE 50M
BLOCKSIZE 512,
   GROUP 2('/u01/app/oracle/oradata/lhrdb/redo02a.log','/u01/app/oracle/oradata/lhrdb/redo02b.log')
SIZE 50M blocksize 512,
   GROUP 3('/u01/app/oracle/oradata/lhrdb/redo03a.log','/u01/app/oracle/oradata/lhrdb/redo03b.log')
SIZE 50M BLOCKSIZE 512
DATAFILE '/u01/app/oracle/oradata/lhrdb/system01.dbf' SIZE 300M REUSE AUTOEXTEND ON NEXT 10M MAXSIZE
SYSAUX DATAFILE '/u01/app/oracle/oradata/lhrdb/sysaux01.dbf' SIZE 100M REUSE AUTOEXTEND ON NEXT 10M
MAXSIZE 10G
DEFAULT TEMPORARY TABLESPACE TEMP TEMPFILE '/u01/app/oracle/oradata/lhrdb/temp01.dbf' SIZE 10M REUSE
AUTOEXTEND ON NEXT 10M MAXSIZE 1G
UNDO TABLESPACE UNDOTBS1 DATAFILE '/u01/app/oracle/oradata/lhrdb/undotbs01.dbf'size 10M REUSE
AUTOEXTEND ON NEXT 10M MAXSIZE 1G
DEFAULT TABLESPACE USERS DATAFILE '/u01/app/oracle/oradata/lhrdb/users01.dbf' SIZE 10M REUSE
AUTOEXTEND ON NEXT 10M MAXSIZE 10G
```

```
SPOOL /tmp/dictionary_tmp.sql
@?/rdbms/admin/catalog.sql
@?/rdbms/admin/catproc.sql
@?/rdbms/admin/dbmspool.sql
@?/rdbms/admin/catblock.sql
@?/rdbms/admin/catbs.sql
@?/rdbms/admin/owminst.plb
@?/rdbms/admin/plustrce.sql
@?/rdbms/admin/plustrce.sql
@?/rdbms/admin/utlrp.sql
@?/rdbms/admin/utlsampl.sql
```

```
conn system/lhr
@?/sqlplus/admin/pupbld.sql
@?/sqlplus/admin/help/hlpbld.sql helpus.sql
SPOOL off
```

----- 单实例数据库添加到 srvctl 中

```
srvctl add database -d lhrdb -c single -o /u01/app/oracle/product/11.2.0/dbhome_1 -p
'/u01/app/oracle/product/11.2.0/dbhome_1/dbs/spfilelhrdb.ora' -r primary -n lhrdb -x ZFXDESKDB2
srvctl config database -d lhrdb -a
srvctl status database -d lhrdb
srvctl start database -d lhrdb
crsctl stat res -t
```

---- drop database

```
alter database close;
alter system enable restricted session;
drop database;
```

1. 6. 1. 2 ORACLE 用户执行 数据文件在 ASM 中 单实例 DB

-----1、 确保环境变量正确

```
export ORACLE_SID=1hrasm
env|grep ORACLE

ORACLE_SID=1hrasm
ORACLE_BASE=/u01/app/oracle
ORACLE_HOME=/u01/app/oracle/product/11.2.0/dbhome_1
```

----- 2、 创建密码文件

orapwd file=\$ORACLE_HOME/dbs/orapwlhrasm password=lhr force=y

----- 3、 创建初始化参数文件和相关路径

\$ORACLE_HOME/dbs/initlhrasm.ora

```
db_name='lhrasm'
memory_target=400437056
processes = 150
audit_file_dest='/u01/app/oracle/admin/lhrasm/adump'
audit_trail ='db'
db_block_size=8192
db_domain=''
db_create_file_dest='+DATA'
db_recovery_file_dest='+FRA'
db_recovery_file_dest_size=2G
diagnostic_dest='/u01/app/oracle'
dispatchers='(PROTOCOL=TCP) (SERVICE=MYNEWDBXDB)'
open_cursors=300
remote_login_passwordfile='EXCLUSIVE'
undo_tablespace='UNDOTBS1'
control_files = '+DATA/lhrasm/controlfile/control01.ctl','+FRA/lhrasm/controlfile/control02.ctl'
compatible ='11.2.0'
```

```
mkdir -p /u01/app/oracle/admin/lhrasm/adump
mkdir -p /u01/app/oracle/flash_recovery_area/lhrasm/
mkdir -p /u01/app/oracle/oradata/lhrasm/
```

----- 4、 创建 spfile , 启动到 nomount 状态

```
sqlplus / as sysdba
create spfile from pfile;
startup nomount
! ps -ef|grep lhrasm
```

----- 5、 **创建** DB

```
CREATE DATABASE 1hrasm
USER SYS IDENTIFIED BY 1hr
USER SYSTEM IDENTIFIED BY 1hr
CONTROLFILE REUSE
CHARACTER SET ZHS16GBK
NATIONAL CHARACTER SET AL16UTF16
EXTENT MANAGEMENT LOCAL
ARCHIVELOG
MAXLOGFILES 192 MAXLOGMEMBERS 5 MAXLOGHISTORY 292 MAXDATAFILES 1024 MAXINSTANCES 32
LOGFILE GROUP 1('+DATA', '+DATA') SIZE 50M BLOCKSIZE 512,
   GROUP 2('+DATA','+DATA') SIZE 50M blocksize 512, GROUP 3('+DATA','+DATA') SIZE 50M BLOCKSIZE 512
DATAFILE '+DATA' SIZE 300M REUSE AUTOEXTEND ON NEXT 10M MAXSIZE 10G
SYSAUX DATAFILE '+DATA' SIZE 100M REUSE AUTOEXTEND ON NEXT 10M MAXSIZE 10G
SET DEFAULT bigfile TABLESPACE
DEFAULT TEMPORARY TABLESPACE TEMP TEMPFILE '+DATA' SIZE 10M REUSE AUTOEXTEND ON NEXT 10M MAXSIZE 1G
UNDO TABLESPACE UNDOTBS1 DATAFILE '+DATA'SIZE 10M REUSE AUTOEXTEND ON NEXT 10M MAXSIZE 1G
DEFAULT TABLESPACE USERS DATAFILE '+DATA' SIZE 10M REUSE AUTOEXTEND ON NEXT 10M MAXSIZE 1G
```

/* ----- BIGFILE
CREATE DATABASE lhrasm

```
USER SYS IDENTIFIED BY 1hr

USER SYSTEM IDENTIFIED BY 1hr

CONTROLFILE REUSE

EXTENT MANAGEMENT LOCAL

SET DEFAULT bigfile TABLESPACE

DEFAULT TEMPORARY TABLESPACE TEMP

UNDO TABLESPACE UNDOTBS1

DEFAULT TABLESPACE USERS

;

*/
```

```
SPOOL /tmp/dictionary_tmp.sql
@?/rdbms/admin/catalog.sql
@?/rdbms/admin/catclust.sql
@?/rdbms/admin/dbmspool.sql
@?/rdbms/admin/catblock.sql
@?/rdbms/admin/caths.sql
@?/rdbms/admin/caths.sql
@?/rdbms/admin/owminst.plb
@?/sqlplus/admin/plustrce.sql
@?/rdbms/admin/utlrp.sql
@?/rdbms/admin/utlrp.sql
@?/rdbms/admin/utlsampl.sql
conn system/lhr
@?/sqlplus/admin/pupbld.sql
@?/sqlplus/admin/help/hlpbld.sql helpus.sql
SPOOL off
```

----- 单实例数据库添加到 srvctl 中

```
srvctl add database -d lhrasm -c single -o /u01/app/oracle/product/11.2.0/dbhome_1 -p
'/u01/app/oracle/product/11.2.0/dbhome_1/dbs/spfilelhrasm.ora' -r primary -n lhrasm -x ZFXDESKDB2
srvctl config database -d lhrasm -a
srvctl status database -d lhrasm
srvctl start database -d lhrasm
crsctl stat res -t
```

```
---- drop database
```

```
alter database close;
alter system enable restricted session;
drop database;
```

1. 6. 1. 3 **11G** rac asm

---- 思路:先创建单实例 DB 然后再转换为 RAC DB

```
export ORACLE_SID=raclhr1
env|grep ORACLE

ORACLE_SID=raclhr
ORACLE_BASE=/u01/app/oracle
ORACLE_HOME=/u01/app/oracle/product/11.2.0/dbhome_1
```

----- 2、 2 **个**节点都 创建密码文件

```
orapwd file=$ORACLE_HOME/dbs/orapwraclhr1 password=lhr force=y orapwd file=$ORACLE_HOME/dbs/orapwraclhr2 password=lhr force=y
```

-----3、 创建初始化参数文件和相关路径

--- 节点一配置:

```
$ORACLE_HOME/dbs/initraclhr1.ora
*.db_name='raclhr'
*.memory_target=400437056
*.processes = 150
*.open_cursors=300
*.audit_file_dest='/u01/app/oracle/admin/raclhr/adump'
*.audit_trail ='db'
*.db_block_size=8192
*.db_domain='
*.db_create_file_dest='+DATA'
*.db_recovery_file_dest='+FRA'
*.db_recovery_file_dest_size=2G
*.diagnostic_dest='/u01/app/oracle'
*.dispatchers='(PROTOCOL=TCP) (SERVICE=MYNEWDBXDB)'
*.control_files = '+DATA/raclhr/controlfile/control01.ctl', '+FRA/raclhr/controlfile/control02.ctl'
*.remote_login_passwordfile='EXCLUSIVE'
```

---2 个节点都创建路径

```
mkdir -p /u01/app/oracle/admin/raclhr/adump
mkdir -p /u01/app/oracle/flash_recovery_area/raclhr/
mkdir -p /u01/app/oracle/oradata/raclhr/
```

--- 节点一执行

```
su - grid
asmcmd
cd +DATA
mkdir raclhr
```

```
cd raclhr
mkdir PARAMETERFILE

su - oracle
sqlplus / as sysdba
create spfile='+DATA/raclhr/PARAMETERFILE/spfileraclhr.ora' from pfile;
```

---2 个节点都执行 创建初始化参数文件执行 ASM 磁盘里的 SPFILE

```
cp $ORACLE_HOME/dbs/initraclhr1.ora $ORACLE_HOME/dbs/initraclhr1.ora_bk
echo "spfile='+DATA/raclhr/PARAMETERFILE/spfileraclhr.ora'" > $ORACLE_HOME/dbs/initraclhr1.ora
echo "spfile='+DATA/raclhr/PARAMETERFILE/spfileraclhr.ora'" > $ORACLE_HOME/dbs/initraclhr2.ora
```

----- 4、节点一启动到 nomount 状态

```
startup nomount
! ps -ef|grep raclhr
show parameter spfile
```

----- 5、 **创建** DB

```
CREATE DATABASE raclhr
USER SYS IDENTIFIED BY 1hr
USER SYSTEM IDENTIFIED BY 1hr
CONTROLFILE REUSE
CHARACTER SET ZHS16GBK
NATIONAL CHARACTER SET AL16UTF16
EXTENT MANAGEMENT LOCAL
ARCHIVELOG
MAXLOGFILES 192 MAXLOGMEMBERS 5 MAXLOGHISTORY 292 MAXDATAFILES 1024 MAXINSTANCES 32
LOGFILE GROUP 1('+DATA', '+DATA') SIZE 50M BLOCKSIZE 512,
   GROUP 2('+DATA','+DATA') SIZE 50M blocksize 512, GROUP 3('+DATA','+DATA') SIZE 50M BLOCKSIZE 512
DATAFILE '+DATA' SIZE 300M REUSE AUTOEXTEND ON NEXT 10M MAXSIZE 10G
SYSAUX DATAFILE '+DATA' SIZE 100M REUSE AUTOEXTEND ON NEXT 10M MAXSIZE 10G
SET DEFAULT bigfile TABLESPACE
DEFAULT TEMPORARY TABLESPACE TEMP TEMPFILE '+DATA' SIZE 10M REUSE AUTOEXTEND ON NEXT 10M MAXSIZE 1G
UNDO TABLESPACE UNDOTBS1 DATAFILE '+DATA'SIZE 10M REUSE AUTOEXTEND ON NEXT 10M MAXSIZE 1G
DEFAULT TABLESPACE USERS DATAFILE '+DATA' SIZE 10M REUSE AUTOEXTEND ON NEXT 10M MAXSIZE 10G
```

```
/* ----- BIGFILE

CREATE DATABASE raclhr

USER SYS IDENTIFIED BY lhr

USER SYSTEM IDENTIFIED BY lhr

CONTROLFILE REUSE

EXTENT MANAGEMENT LOCAL

SET DEFAULT bigfile TABLESPACE

DEFAULT TEMPORARY TABLESPACE TEMP

UNDO TABLESPACE UNDOTBS1

DEFAULT TABLESPACE USERS

;

*/
```

----- 6、 修改 rac 需要的内容

```
create undo tablespace UNDOTBS2 datafile '+DATA' size 50M reuse autoextend off; alter database add logfile thread 2 group 4 ('+DATA','+FRA') SIZE 50M BLOCKSIZE 512; alter database add logfile thread 2 group 5 ('+DATA','+FRA') SIZE 50M BLOCKSIZE 512; alter database add logfile thread 2 group 6 ('+DATA','+FRA') SIZE 50M BLOCKSIZE 512;
```

select * from v\$log;

```
ALTER SYSTEM SET cluster_database=true scope=spfile sid='*';
ALTER SYSTEM SET instance_number=1 scope=spfile sid='raclhr1';
ALTER SYSTEM SET instance_number=2 scope=spfile sid='raclhr2';
ALTER SYSTEM SET thread=1 scope=spfile sid='raclhr1';
ALTER SYSTEM SET thread=2 scope=spfile sid='raclhr2';
ALTER SYSTEM SET undo_tablespace='UNDOTBS1' scope=spfile sid='raclhr1';
ALTER SYSTEM SET undo_tablespace='UNDOTBS2' scope=spfile sid='raclhr2';
alter database enable public thread 2;
shutdown immediate
```

----- 7、 启动 2 个节点

----- rac 数据库添加到 srvctl 中

```
srvctl add database -d raclhr -c rac -o /oracle/app/oracle/product/11.2.0/db -p
'+DATA/raclhr/PARAMETERFILE/spfileraclhr.ora' -r primary -n raclhr

srvctl config database -d raclhr -a

srvctl add instance -d raclhr -i raclhr1 -n ZFXDESKDB1
srvctl add instance -d raclhr -i raclhr2 -n ZFXDESKDB2

srvctl status database -d raclhr
srvctl status database -d raclhr
srvctl start db -d raclhr
srvctl status database -d raclhr
```

----- 8、 编译数据字典脚本

```
SPOOL /tmp/dictionary_tmp.sql
@?/rdbms/admin/catalog.sql
@?/rdbms/admin/catproc.sql
@?/rdbms/admin/catclust.sql
@?/rdbms/admin/dbmspool.sql
@?/rdbms/admin/catblock.sql
@?/rdbms/admin/caths.sql
@?/rdbms/admin/owminst.plb
@?/sqlplus/admin/plustrce.sql
@?/rdbms/admin/utlrp.sql
@?/rdbms/admin/utlsampl.sql
conn system/lhr
```

```
@?/sqlplus/admin/pupbld.sql
@?/sqlplus/admin/help/hlpbld.sql helpus.sql
SPOOL off
```

```
---- drop database
```

```
alter system set cluster_database=false scope=spfile;
! srvctl stop db -d raclhr
startup force mount restrict;
drop database;
```

1. 6. 2 10G

```
export ORACLE_SID=1hrdb
orapwd file=$ORACLE_HOME/dbs/orapwlhrdb password=lhr force=y
vi $ORACLE_HOME/dbs/initlhrdb.ora
db name=1hrdb
processes=150
max_dump_file_size=10240
global_names=TRUE
control_files=('/u01/app/oracle/oradata/lhrdb/control01.ora','/u01/app/oracle/oradata/lhrdb/contro
102.ora')
sga_target=400m
undo_management='AUTO'
undo_tablespace='UNDOTBS1'
mkdir -p $ORACLE_BASE/oradata/lhrdb
mkdir -p $ORACLE_BASE/lhrdb/adump
mkdir -p $ORACLE_BASE/lhrdb/bdump
mkdir -p $ORACLE_BASE/lhrdb/cdump
mkdir -p $ORACLE_BASE/lhrdb/ddump
mkdir -p $ORACLE_BASE/lhrdb/udump
sqlplus / as sysdba
create spfile from pfile;
startup nomount;
CREATE DATABASE 1hrdb
  USER SYS IDENTIFIED BY 1hr
  USER SYSTEM IDENTIFIED BY 1hr
  CONTROLFILE REUSE
  CHARACTER SET ZHS16GBK
  NATIONAL CHARACTER SET AL16UTF16
  EXTENT MANAGEMENT LOCAL
  ARCHIVELOG
  MAXLOGFILES 24 MAXLOGMEMBERS 5 MAXLOGHISTORY 292 MAXDATAFILES 1024 MAXINSTANCES 12
  LOGFILE GROUP 1 ('/u01/app/oracle/oradata/lhrdb/redo01.log') SIZE 50M,
                   /u01/app/oracle/oradata/lhrdb/redo02.log') SIZE 50M,
         GROUP 3 ('/u01/app/oracle/oradata/lhrdb/redo03.log') SIZE 50M
  DATAFILE '/u01/app/oracle/oradata/lhrdb/system01.dbf' SIZE 300M REUSE
  SYSAUX DATAFILE '/u01/app/oracle/oradata/lhrdb/sysaux01.dbf' SIZE 100M REUSE
  DEFAULT TEMPORARY TABLESPACE temp TEMPFILE '/u01/app/oracle/oradata/lhrdb/temp01.dbf' SIZE 20M
REUSE
  UNDO TABLESPACE undotbs1 DATAFILE '/u01/app/oracle/oradata/lhrdb/undotbs01.dbf' SIZE 10M REUSE
AUTOEXTEND ON NEXT 10M MAXSIZE 1G;
```

```
conn / as sysdba
SPOOL /tmp/dictionary_tmp.sql
@?/rdbms/admin/catalog.sql
@?/rdbms/admin/catproc.sql
@?/rdbms/admin/catclust.sql
@?/rdbms/admin/dbmspool.sql
@?/rdbms/admin/catblock.sql
@?/rdbms/admin/caths.sql
@?/rdbms/admin/owminst.plb
@?/sqlplus/admin/plustrce.sql
@?/rdbms/admin/utlrp.sql
@?/rdbms/admin/utlsampl.sql
conn system/lhr
@?/sqlplus/admin/pupbld.sql
@?/sqlplus/admin/help/hlpbld.sql helpus.sql
SPOOL off
```

ORA-01519: error while processing file '?/rdbms/admin/dtxnspc.bsq' near line 20

ORA-01092: ORACLE instance terminated. Disconnection forced

1.6.3 **创建** bigfile **的** db 报错

ORA-01501: CREATE DATABASE failed

```
ORA-00604: error occurred at recursive SQL level 1
ORA-32772: BIGFILE is invalid option for this type of tablespace
Process ID: 12451948
Session ID: 156 Serial number: 3
   ----- 解决办法:SET DEFAULT bigfile TABLESPACE 位置不对,应该如下:
/* ----BIGFILE
CREATE DATABASE lhrasm
USER SYS IDENTIFIED BY 1hr
USER SYSTEM IDENTIFIED BY 1hr
CONTROLFILE REUSE
CONTROLFILE REUSE
CHARACTER SET ZHS16GBK
NATIONAL CHARACTER SET AL16UTF16
EXTENT MANAGEMENT LOCAL
ARCHIVELOG
MAXLOGFILES 192 MAXLOGMEMBERS 5 MAXLOGHISTORY 292 MAXDATAFILES 1024 MAXINSTANCES 32
LOGFILE GROUP 1('+DATA','+DATA') SIZE 50M BLOCKSIZE 512,
   GROUP 2('+DATA', '+DATA') SIZE 50M blocksize 512,
   GROUP 3 ('+DATA', '+DATA') SIZE 50M BLOCKSIZE 512
DATAFILE '+DATA' SIZE 300M REUSE AUTOEXTEND ON MAXSIZE UNLIMITED
SYSAUX DATAFILE '+DATA' SIZE 100M REUSE AUTOEXTEND ON MAXSIZE UNLIMITED
SET DEFAULT bigfile TABLESPACE
DEFAULT TEMPORARY TABLESPACE TEMP TEMPFILE '+DATA' SIZE 20M REUSE AUTOEXTEND OFF
```

```
UNDO TABLESPACE UNDOTBS1 DATAFILE '+DATA'SIZE 50M REUSE AUTOEXTEND OFF
DEFAULT TABLESPACE USERS DATAFILE '+DATA' SIZE 500M REUSE AUTOEXTEND OFF
;
```

```
CREATE DATABASE lhrasm

USER SYS IDENTIFIED BY lhr

USER SYSTEM IDENTIFIED BY lhr

CONTROLFILE REUSE

EXTENT MANAGEMENT LOCAL

SET DEFAULT bigfile TABLESPACE

DEFAULT TEMPORARY TABLESPACE TEMP

UNDO TABLESPACE UNDOTBS1

DEFAULT TABLESPACE USERS

;

*/
```

1.7 手动建库中的组件安装

```
----- 安装 JVM
```

@?/javavm/install/initjvm.sql;
@?/xdk/admin/initxml.sql;
@?/xdk/admin/xmlja.sql;
@?/rdbms/admin/catjava.sql;

-- 安装 XMLDB

@?/rdbms/admin/catqm.sql oracle SYSAUX TEMP YES
@?/rdbms/admin/catxdbj.sql;

其它组件安装可以参考: http://blog.itpub.net/26736162/viewspace-1562441/

1.8 如何安装 Sample Schemas

dbca 静默安装中有个参数是 sampleSchema 我们若设置为 true,则安装后数据库中有 EXAMPLE 表空间,有 HR,OE,PM,SH,IX 用户,大约占用 350M 的空间,若设置为 false,则后续可以根据以下文档来安装。

[OH] Database Sample Schemas -- Installation and Descriptions : http://blog.itpub.net/26736162/viewspace-2098222/

1.9 手动建库中常用脚本的解释

更多的数据字典脚本说明可以参考:【OH】常用数据字典脚本说明 SQL Scripts :

http://blog.itpub.net/26736162/viewspace-2098205/

Script Name	Needed For	Run By	Description
catalog.sql	All databases	SYS	Creates the data dictionary and public synonyms for many of its views Grants PUBLIC access to the synonyms
catproc.sql	All databases	SYS	Runs all scripts required for, or used with, PL/SQL
catclust.sql	Real Application Clusters	SYS	Creates Real Application Clusters data dictionary views
catblock.sql	Performance management	SYS	Creates views that can dynamically display lock dependency graphs
dbmspool.sql	Performance management	SYS or SYSDBA	Enables DBA to lock PL/SQL packages, SQL statements, and triggers into the shared pool
caths.sql	Heterogeneous Services	SYS	Installs packages for administering heterogeneous services
@?/rdbms/admin/owminst.plb		sys	创建 WMSYS 用户
@?/sqlplus/admin/pupbld.sql		system	解决 PRODUCT_USER_PROFILE 问题
@?/sqlplus/admin /plustrce.sql		sys	普通用户 set autot on 的权限
@?/sqlplus/admin /help/hlpbld.sql helpus.sql	5	system	sqlplus 的帮助文档

1.10 关于 sqlplus 的帮助命令

手动建库最后有个脚本:@?/sqlplus/admin/help/hlpbld.sql helpus.sql 是用来生成 sqlpuls 的帮

助命令的,我们演示如下:

```
[ZFXDESKDB1:oracle]:/oracle>cd $ORACLE_HOME/sqlplus/admin/help

[ZFXDESKDB1:oracle]:/oracle/app/oracle/product/11.2.0/db/sqlplus/admin/help>l

total 168

-rw-r---- 1 oracle dba 265 Feb 16 2003 helpbld.sql

-rw-r---- 1 oracle dba 366 Jan 03 2011 helpdrop.sql
```

```
1 oracle
                         dba
                                        71817 Aug 16 2012 helpus.sql
-rw-r--r--
                                         2154 Jan 03 2011 hlpbld.sql
              1 oracle
                         dba
[ZFXDESKDB1:oracle]:/oracle/app/oracle/product/11.2.0/db/sqlplus/admin/help>more helpbld.sql
-- Copyright (c) Oracle Corporation 2003. All Rights Reserved.
-- NAME
    helpbld.sql
-- DESCRIPTION
    Invoke and execute the script to loads the SQL*Plus HELP system and
     upon completion, exit the SQL*Plus connection
@@&1/hlpbld.sql &2
exit
[ZFXDESKDB1:oracle]:/oracle/app/oracle/product/11.2.0/db/sqlplus/admin/help>sqlplus / as sysdba
SQL*Plus: Release 11.2.0.4.0 Production on Wed Jul 13 09:54:19 2016
Copyright (c) 1982, 2013, Oracle. All rights reserved.
Connected to:
Oracle Database 11g Enterprise Edition Release 11.2.0.4.0 - 64bit Production
With the Partitioning, Real Application Clusters, Automatic Storage Management, OLAP,
Data Mining and Real Application Testing options
SYS@omflhr> ? set
SP2-0171: HELP system not available.
SYS@omflhr> @?/sqlplus/admin/help/hlpbld.sql helpus.sql
PL/SQL procedure successfully completed.
Table created.
Grant succeeded.
Commit complete.
PL/SQL procedure successfully completed.
SYS@omflhr> ? set
 SET
 Sets a system variable to alter the SQL*Plus environment settings
 for your current session. For example, to:
     - set the display width for data
         customize HTML formatting
         enable or disable printing of column headings
         set the number of lines per page
 SET system_variable value
 where system_variable and value represent one of the following clauses:
   APPI[NFO] {OFF | ON | text}
                                             NEWP[AGE] \{1 \mid n \mid NONE\}
   ARRAY[SIZE] \{15 \mid n\}
                                             NULL text
   AUTO[COMMIT] \hspace{0.2cm} \{OFF|ON|IMM[EDIATE] \hspace{0.1cm}|\hspace{0.1cm}n\}
                                             NUMF[ORMAT] format
   AUTOP[RINT] {OFF|ON}
                                             \texttt{NUM[WIDTH]} \ \{10 \,|\, n\}
   AUTORECOVERY {OFF | ON}
                                             PAGES[IZE] {14|n}
```

```
AUTOT[RACE] {OFF|ON|TRACE[ONLY]}
                                                PAU[SE] {OFF|ON|text}
     [EXP[LAIN]] [STAT[ISTICS]]
                                                RECSEP {WR[APPED] | EA[CH] | OFF}
   BLO[CKTERMINATOR] \{. |c|ON|OFF\}
                                                RECSEPCHAR { | c}
                                                SERVEROUT[PUT] {ON|OFF}
   CMDS[EP] {; |c|OFF|ON}
                                                  [SIZE \{n \mid UNLIMITED\}]
   COLSEP {_|text}
   CON[CAT] {. | c | ON | OFF}
                                                   [FOR[MAT] {WRA[PPED] |
                                                   WOR[D_WRAPPED] |
   COPYC[OMMIT] \{0 \mid n\}
   COPYTYPECHECK {ON | OFF}
                                                   TRU[NCATED]}]
   DEF[INE] {&|c|ON|OFF}
                                                SHIFT[INOUT] {VIS[IBLE] |
   DESCRIBE [DEPTH {1 | n | ALL}]
                                                  INV[ISIBLE]}
     [LINENUM {OFF | ON}] [INDENT {OFF | ON}]
                                                SHOW[MODE] {OFF | ON}
   ECHO {OFF | ON}
                                                SQLBL[ANKLINES] {OFF|ON}
   EDITF[ILE] file_name[.ext]
                                                SQLC[ASE] {MIX[ED] |
                                                  LO[WER] | UP[PER]}
   EMB[EDDED] {OFF | ON}
   ERRORL[OGGING] {ON | OFF}
                                                SQLCO[NTINUE] {> | text}
     [TABLE [schema.]tablename]
                                                SQLN[UMBER] {ON | OFF}
     [TRUNCATE] [IDENTIFIER identifier]
                                                SQLPLUSCOMPAT[IBILITY] {x.y[.z]}
   ESC[APE] \{ | c | OFF | ON \}
                                                SQLPRE[FIX] {# | c}
                                                SQLP[ROMPT] {SQL>|text}
   ESCCHAR {@|?|%|$|OFF}
   EXITC[OMMIT] {ON|OFF}
                                                SQLT[ERMINATOR] {; | c | ON | OFF}
   FEED[BACK] \{6 \mid n \mid ON \mid OFF\}
                                                SUF[FIX] {SQL|text}
   FLAGGER {OFF|ENTRY|INTERMED[IATE]|FULL}
                                                TAB {ON | OFF}
   FLU[SH] {ON OFF}
                                                TERM[OUT] {ON | OFF}
   HEA[DING] {ON|OFF}
                                                TI[ME] {OFF|ON}
   {\tt HEADS[EP]} \ \{ | | c | ON | OFF \}
                                                TIMI[NG] {OFF | ON}
   INSTANCE [instance_path|LOCAL]
                                                TRIM[OUT] {ON OFF}
   LIN[ESIZE] \{80 \mid n\}
                                                TRIMS[POOL] {OFF|ON}
   LOBOF[FSET] \{1 \mid n\}
                                                UND[ERLINE] {-|c|ON|OFF}
   LOGSOURCE [pathname]
                                                VER[IFY] {ON OFF}
   LONG \{80 \mid n\}
                                                WRA[P] {ON OFF}
   LONGC[HUNKSIZE] {80 | n}
                                                XQUERY {BASEURI text|
   MARK[UP] HTML [OFF ON]
                                                  ORDERING {UNORDERED |
     [HEAD text] [BODY text] [TABLE text]
                                                            ORDERED | DEFAULT | |
     [ENTMAP {ON | OFF}]
                                                  NODE {BYVALUE | BYREFERENCE |
     [SPOOL {OFF ON}]
                                                        DEFAULT} |
     [PRE[FORMAT] {OFF | ON}]
                                                  CONTEXT text}
SYS@omflhr>
SYS@omflhr> ? index
Enter Help [topic] for help.
@
                COPY
                              PAUSE
                                                          SHUTDOWN
                DEFINE
                              PRINT
                                                          SP00L
                DEL
                              PROMPT
                                                          SQLPLUS
 ACCEPT
                DESCRIBE
                              QUIT
                                                          START
                                                          STARTUP
 APPEND
                DISCONNECT
                              RECOVER
 ARCHIVE LOG
                EDIT
                              REMARK
                                                          STORE
                EXECUTE
ATTRIBUTE
                              REPFOOTER
                                                          TIMING
                              REPHEADER
BREAK
                EXIT
                                                          TTITLE
                              RESERVED WORDS (SQL)
BTITLE
                                                          UNDEFINE
                GET
CHANGE
                              RESERVED WORDS (PL/SQL)
                                                          VARIABLE
                HELP
CLEAR
                HOST
                              RUN
                                                          WHENEVER OSERROR
COLUMN
                INPUT
                              SAVE
                                                          WHENEVER SQLERROR
COMPUTE
                LIST
                              SET
                                                          XQUERY
CONNECT
                PASSWORD
                              SHOW
```

SYS@omflhr>

About Me

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