
Database Utilities

Oracle Server (Util O/1)

The Oracle Server Utility menu allows you to manage the Oracle server.

To access the Oracle Server menu:

1. Log on to a Rosetta server with the `dps` user.

Note

If you are using a dedicated Oracle server, you must log on to a server that has Rosetta installed in order to access Util O.

2. Enter the following commands to display the Managing Oracle menu.

```
util o
```

3. Enter option **1** to display the Oracle Server menu.

```
0.1 Oracle Server
-----
0. Exit Procedure
1. Activate Oracle Server
2. Close Oracle Server
3. Show Running Oracle Server
4. Show Oracle Server Status
```

Activate Oracle Server (Util O/1/1)

In order for Rosetta to interact with Oracle, the Oracle server must be running. When Rosetta is installed on the same server as the Rosetta database, it does not require the Listener. However, the Listener must run on the server if a third-party product is used to connect Rosetta and the database or if there is a remote server connected to the database. For example, when Rosetta is installed on one server and the database is on a different server, the Listener must be running on the database server in order for Rosetta to operate correctly.

Rosetta and Oracle may start automatically at boot time (if this option is set during installation).

Note

- This operation requires the `EXL_DBA` user name and password.
 - This utility will not be available if the Oracle database and the Rosetta application are installed on separate servers.
-

To start up the Oracle server:

1. Enter option **1** from the Oracle Server menu.

The following prompt displays:

```
To continue you will need to enter EXL_DBA username/password.  
Username/password:
```

2. Enter the `EXL_DBA` user name and password (`EXL_DBA/EXL_DBA`) to activate the Oracle server.
-

Note

The `EXL_DBA` user, which is created during installation, is provided with database administration privileges that allow you to start up or shut down the database.

Close Oracle Server (Util O/1/2)

Note

This operation requires the `EXL_DBA` user name and password.

This utility shuts down the Oracle server immediately by activating the Oracle shutdown immediate option. All the clients connected to the server are immediately logged out.

To shut down the Oracle server:

1. Enter option **2** from the Oracle Server menu. To access this menu, see [Oracle Server \(Util O/1\)](#).

The following prompt displays:

```
Do you want to restart Oracle server after closing? yes/[no]
```

2. Enter **yes** to shut down and the restart the server automatically.

The following prompt displays:

```
To close Oracle server enter EXL_DBA username/password.  
username/password:
```

Note

To restart the server later, see [Activate Oracle Server \(Util O/1/1\)](#).

3. Enter the EXL_DBA user name and password (EXL_DBA/EXL_DBA) to activate the Oracle server.
-

Note

The EXL_DBA user, which is created during installation, is provided with database administration privileges that allow you to start up or shut down the database.

Show Oracle Server Status (Util O/1/4)

This utility displays the status of the Oracle server.

To display the status of the Oracle server, enter option **4** from the Oracle Server menu.

The following is an example of the output of the Util O/1/4 Show Oracle Server Status utility:

```
INSTANCE_N  HOST_NAME          VERSION           STARTUP_TI       STATUS           LOGINS  
-----  
dps         il-dtldev08c      12.1.0.2.0       16-SEP-18       OPEN            ALLOWED  
BANNER  
-----  
Oracle Database 12c Enterprise Edition Release 12.1.0.2.0 - 64bit Production  
PL/SQL Release 12.1.0.2.0 - Production  
CORE       12.1.0.2.0        Production  
TNS for Linux: Version 12.1.0.2.0 - Production  
NLSRTL Version 12.1.0.2.0 - Production
```

Oracle Listener (Util O/2)

The Oracle Listener menu allows you to manage the Oracle Listener.

```
0.2 Oracle Listener  
-----  
0. Exit Procedure
```

1. Activate Oracle Listener
2. Close Oracle Listener
3. Show Running Oracle Listener
4. Show Listener Status
5. Show Listener Services

Note

This utility will not be available if the Oracle database and the Rosetta application are installed on separate servers.

To access the Oracle Listener menu:

1. Log on to the server with the `dps` user.
2. Enter the following commands to display the Managing Oracle menu.

```
util o
```

3. Enter option **2** to display the Oracle Listener menu.

Activate Oracle Listener (Util O/2/1)

Note

This utility requires the Oracle software owner password.

When a user process makes a connection request using a connect string, the Oracle Listener process examines the request and connects the user process to a server process. If Oracle and Rosetta are installed on the same server and no third-party products are used to connect to the database and no connections are made from a remote server, Rosetta can work without the Listener. In any other case, both the Oracle server and the Oracle Listener must be running. They may be started automatically at boot time (this is determined during installation) and also controlled by the Rosetta Oracle Management utilities.

To start up the Oracle Listener:

1. Enter option **1** from the Oracle Listener menu.

The following prompt displays:

```
To continue you will need to enter Oracle's password.  
Password:
```

2. Enter the Oracle password to start up the Oracle Listener.

Close Oracle Listener (Util O/2/2)

Note

This utility requires the Oracle software owner password.

This utility shuts down the Oracle Listener immediately. You have an option to restart the listener automatically.

To shut down the Oracle Listener:

1. Enter option **2** from the Oracle Listener menu.

The following prompt displays:

```
Do you want to restart Oracle Listener after closing? yes/[no]
```

2. Enter **yes** to shut down and then restart the Listener automatically.

The following prompt displays:

```
To restart Oracle Listener enter oracle's password.  
Password:
```

Note

To start the Listener later, see [Activate Oracle Listener \(Util O/2/1\)](#).

3. Enter the Oracle password to restart the Oracle Listener.

Show Listener Status (Util O/2/4)

This utility displays the status of the Oracle Listener.

To display the status of the Oracle Listener, enter option **4** from the Oracle Listener menu.

The following example shows the results of this utility:

```
LSNRCTL for Linux: Version 12.1.0.2.0 - Production on 22-OCT-2018 14:57:42  
Copyright (c) 1991, 2014, Oracle. All rights reserved.  
Connecting to (DESCRIPTION=(address=(protocol=ipc) (key=dps)))  
STATUS of the LISTENER  
-----
```

```
Alias                LISTENER
Version              TNSLSNR for Linux: Version 12.1.0.2.0 - Production
Start Date           16-SEP-2018 11:51:41
Uptime               36 days 3 hr. 6 min. 1 sec
Trace Level          off
Security             ON: Local OS Authentication
SNMP                 OFF
Listener Parameter File /exlibris/app/oracle/product/12r1/network/admin/listener.ora
Listener Log File    /exlibris/app/oracle/diag/tnslnr/il-dtldev08c/listener/
alert/log.xml
Listening Endpoints Summary...
  (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc) (KEY=dps)))
  (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp) (HOST=il-
dtldev08c.corp.exlibrisgroup.com) (PORT=1521)))
Services Summary...
Service "dps" has 1 instance(s).
  Instance "dps", status UNKNOWN, has 1 handler(s) for this service...
Service "dps.il-dtldev08c.corp.exlibrisgroup.com" has 1 instance(s).
  Instance "dps", status READY, has 1 handler(s) for this service...
The command completed successfully
```

Show Listener Services (Util O/2/5)

This utility displays the Oracle Listener services. To display the Oracle Listener services, enter option **5** from the Oracle Listener menu.

The following example shows the results of this utility:

```
LSNRCTL for Linux: Version 12.1.0.2.0 - Production on 22-OCT-2018 14:58:41
Copyright (c) 1991, 2014, Oracle. All rights reserved.
Connecting to (DESCRIPTION=(address=(protocol=ipc) (key=dps)))
Services Summary...
Service "dps" has 1 instance(s).
  Instance "dps", status UNKNOWN, has 1 handler(s) for this service...
  Handler(s):
    "DEDICATED" established:3 refused:0
    LOCAL SERVER
Service "dps.il-dtldev08c.corp.exlibrisgroup.com" has 1 instance(s).
  Instance "dps", status READY, has 1 handler(s) for this service...
  Handler(s):
    "DEDICATED" established:7882 refused:0 state:ready
    LOCAL SERVER
The command completed successfully
```

Oracle Logs (Util O/3)

The Oracle Logs menu allows you to view the Oracle log file.

```
O.3 Oracle Logs
-----
0. Exit Procedure
1. View Oracle ALERT LOG
```

To access the Oracle Logs menu:

1. Log on to the server with the `dps` user.
2. Enter the following commands to display the Managing Oracle menu.

```
util o
```

3. Enter option **3** to display the Oracle Logs menu.

NLS (Util O/6)

The NLS menu allows you to view the NLS (National Language Support) parameters.

```
O.6 NLS
-----
0. Exit Procedure
1. Show NLS Parameters
```

To access the NLS menu:

1. Log on to the server with the `dps` user.
2. Enter the following commands to display the Managing Oracle menu.

```
util o
```

3. Enter option **6** to display the NLS menu.

Show NLS Parameters (Util O/6/1)

Rosetta uses the UTF8 character set. This utility shows the NLS (National Language Support) definition of the database.

To view the NLS parameter settings:

1. Enter option **1** from the NLS menu.

For example, the utility displays the settings of the parameters:

PARAMETER	VALUE
=====	=====
NLS_LANGUAGE	AMERICAN
NLS_TERRITORY	AMERICA
NLS_CURRENCY	\$
NLS_ISO_CURRENCY	AMERICA
NLS_NUMERIC_CHARACTERS	.,
NLS_CALENDAR	GREGORIAN
NLS_DATE_FORMAT	DD-MON-RR
NLS_DATE_LANGUAGE	AMERICAN
NLS_CHARACTERSET	UTF8
NLS_SORT	BINARY
NLS_TIME_FORMAT	HH.MI.SSXF AM
NLS_TIMESTAMP_FORMAT	DD-MON-RR HH.MI.SSXF AM
NLS_TIME_TZ_FORMAT	HH.MI.SSXF AM TZR
NLS_TIMESTAMP_TZ_FORMAT	DD-MON-RR HH.MI.SSXF AM TZR
NLS_DUAL_CURRENCY	\$
NLS_NCHAR_CHARACTERSET	UTF8
NLS_COMP	BINARY
NLS_LENGTH_SEMANTICS	BYTE
NLS_NCHAR_CONV_EXCP	FALSE
19 rows selected.	

2. Type enter to return to the NLS menu.

Archiving (Util O/7)

Resetta backup and recovery procedures are based on Oracle. In order to provide complete recovery of data up to the time of failure, the Oracle database mode must be archivelog mode. This ensures full recovery up to the time of failure. Hot backup cannot be performed without first enabling archivelog mode of the database.

If the database is in noarchivelog mode, only cold backups can be performed. A cold backup restores data to the time the last backup was performed. This means that all changes from the time of failure are lost.

Ex Libris highly recommends archivelog mode because in this mode, both cold and hot backups can be used to recover the database right up to the time of the failure. To ensure a complete recovery, all the archive files that were generated from the time of the backup (hot or cold) until the time of failure must be available.

Refer to the Oracle backup manual for more information on the preliminary actions that are required before using Util O/7.

Note

- Always perform a full cold backup immediately after switching to archivelog mode. If you do not do this, there will be a gap in the archivelog files, which will prevent a full recovery.

The Archiving menu allows you to manage archiving.

```
0.7 Archiving
-----
0. Exit Procedure
1. Turning Archiving On
2. Turning Archiving Off
3. Show Archiving Status
```

To access the Archiving menu:

1. Log on to the server with the `dps` user.
2. Enter the following commands to display the Managing Oracle menu.

```
util o
```

3. Enter option **7** to display the Archiving menu.

Turning Archiving On (Util O/7/1)

When you run your database in ARCHIVELOG mode, you enable the archiving of the redo log.

Note

- Turning archiving on requires a `EXL_DBA` user name and password.
- Changing the archiving mode shuts down the database and restarts it in archivelog mode.

To turn on Oracle archiving mode:

1. Stop Rosetta using the startup scripts described in [Starting and Stopping the System](#).
2. From the Archiving menu, enter option **1** to turn on archiving.

3. At the following prompt, enter the EXL_DBA/EXL_DBA user name/password:

```
To continue you will need to enter EXL_DBA username/password.  
username/password:
```

4. Restart Rosetta using the startup script described in [Starting and Stopping the System](#).

Turning Archiving Off (Util O/7/2)

When you run your database in NOARCHIVELOG mode, you disable the archiving of the redo log.

Note

- Requires EXL_DBA user name and password.
- Changing the archiving mode shuts down the database and restarts it with archivelog mode off.

To turn off Oracle archiving mode:

1. Stop Rosetta processes using the startup script, as described in [Starting and Stopping the System](#).
2. From the Archiving menu, enter option **2** to turn off archiving.
3. At the following prompt, enter the EXL_DBA/EXL_DBA user name/password:

```
To continue you will need to enter EXL_DBA username/password.  
username/password:
```

4. Restart Rosetta using the startup scripts described in [Starting and Stopping the System](#).

Show Archiving Status (Util O/7/3)

This utility displays the current archiving status of Oracle.

Note

You will need an EXL_DBA user name and password to view the status.

To view the archiving status, enter option **3** from the Archiving menu to view the status. For example, the following output displays if archiving is off:

```
SQL*Plus: Release 10.2.0.1.0 - Production on Sun Jan 7 14:09:12 2007

Copyright (c) 1982, 2005, Oracle. All rights reserved.

idle> Connected.

idle> idle> Database log mode No Archive Mode

Automatic archival Disabled

Archive destination /exlibris/oradata/prml/arch/

Oldest online log sequence 6717

Current log sequence 6721

idle> Disconnected from Oracle Database 10g Enterprise Edition Release 10.2.0.1.0 -
Production

With the Partitioning, OLAP and Data Mining Scoring Engine options

When archiving is on, the following two lines are displayed, as follows:

SQL> SQL> Database log mode Archive Mode

Automatic archival Enabled
```

In a production database, always set the Database log mode to Archive mode.

Database Users (Util O/9)

The Database Users menu allows you to view and create database users.

```
0.9. Database Users
-----
0. Exit Procedure
1. List Database Users
2. Create a New User

Please select [exit]:
```

To access the Database Users menu:

1. Log on to the server with the `dps` user.
2. Enter the following commands to display the Managing Oracle menu.

```
util o
```

3. Enter option **9** to display the Database Users menu.

List Database Users (Util O/9/1)

This utility lists all of the users in the database. To list the database users, enter option **1** from the Database Users menu. For example:

```
The Database dps Contains the Following Users:
```

```
=====
```

```
:V23D_DEP00  
ANONYMOUS  
APEX_030200  
APEX_040200  
APEX_PUBLIC_USER  
APPQOSSYS  
AUDSYS  
CTXSYS  
DBSNMP  
DIP  
EXL  
EXL_ADMIN  
EXL_BACKUP  
EXL_DBA  
FLOWS_FILES  
GSMADMIN_INTERNAL  
GSMCATUSER  
GSMUSER  
MDSYS  
OJVMSYS  
OLAPSYS  
ORACLE_OCM  
ORDDATA  
ORDPLUGINS  
ORDSYS  
OUTLN  
SI_INFORMTN_SCHEMA  
SYS  
SYSBACKUP  
SYSDG  
SYSKM  
SYSTEM  
V23D_DEP00  
V23D_JBPM00
```

```
V23D_PER00
V23D_PRSV00
V23D_PUB00
V23D_REP00
V23D_ROS00
V23D_RPT00
V23D_SHR00
V2M9_JBPM00
V2M9_PRSV00
V2M9_RPT00
V2M9_SEARCH00
WMSYS
XDB
XS$NULL
```

Enter CR to continue...

Note

Some of the users are Rosetta users and others are administrative users.

Create a New User (Util O/9/2)

This utility creates a new user with a default password that is the same as the user name.

Note

If the name of the user already exists, all the tables and data of that user are deleted. The user is created with empty tables.

To create a new database user:

1. Enter option **2** from the Database Users menu.
2. At the following prompt, enter the new user name:

```
Enter User Name to Create New User:
```

3. At the following prompt, enter **yes** to continue:

```
enter yes to create oracle user <new_user/>
```

4. At the following prompt, enter **no** to reconfirm:

```
default password is v23d_<new_user/>

if user <new_user/> exists all data will be erased!!!

enter no to reconfirm
```

5. At the following prompt, type enter to return to the Database Users menu:

```
source create_ora_user_b v23d_<new_user/>
create_ora_user_b v23d_<new_user/>

SQL*Plus: Release 10.2.0.4.0 - Production on Sat Jul 11 06:46:35 2009
Copyright (c) 1982, 2007, Oracle. All Rights Reserved.

Enter user-name:

Connected to:

Oracle Database 10g Enterprise Edition Release 10.2.0.4.0 - 64bit Production
With the Partitioning, OLAP, Data Mining and Real Application Testing options

SQL> EXIT

Disconnected from Oracle Database 10g Enterprise Edition Release 10.2.0.4.0 - 64bit
Production

With the Partitioning, OLAP, Data Mining and Real Application Testing options

SQL*Plus: Release 10.2.0.4.0 - Production on Sat Jul 11 06:46:35 2009
Copyright (c) 1982, 2007, Oracle. All Rights Reserved.

Enter user-name:

Connected to:

Oracle Database 10g Enterprise Edition Release 10.2.0.4.0 - 64bit Production
With the Partitioning, OLAP, Data Mining and Real Application Testing options

SQL> old 1: DROP USER &&1 CASCADE

new 1: DROP USER v23d_<new_user/> CASCADE

DROP USER v23d_<new_user/> CASCADE

*

ERROR at line 1:

ORA-01918: user 'v23d_<new_user/>' does not exist
```

```
User created.
```

```
Grant succeeded.
```

```
Disconnected from Oracle Database 10g Enterprise Edition Release 10.2.0.4.0 - 64bit  
Production
```

```
With the Partitioning, OLAP, Data Mining and Real Application Testing options
```

```
Enter CR to continue...
```

Database Files (Util O/13)

The Database Files menu contains utilities that allow you to manage database files.

```
0.13 Database Files
```

```
-----
```

```
0. Exit Procedure
```

```
1. List of Database Files
```

```
2. Resize Oracle Datafile
```

```
3. Add File to Tablespace
```

```
4. Show Datafile Free Blocks by KBytes
```

```
5. Show Datafile Free Blocks by BlockID
```

```
Please select [exit]:
```

To access the Database Files menu:

1. Log on to the server with the `dps` user.
2. Enter the following commands to display the Managing Oracle menu.

```
util o
```

3. Enter option **13** to display the Database Files menu.

List of Database Files (Util O/13/1)

This utility lists the Oracle data files and their sizes. To list the database files, enter option **1** from the Database Files menu. For example:

The Database dps Contains the Following Files:

```
=====
T          NAME
          SIZE K  F
-----
LOG        /exlibris/oradata/dps/dps_log01.dbf
          65536  6
SYSAUX     /exlibris/oradata/dps/dps_sysaux01.dbf
          3145728  2
SYSTEM     /exlibris/oradata/dps/dps_system01.dbf
          964608  1
TS0        /exlibris/oradata/dps/dps_ts0_01.dbf
          20971520  7
TS1        /exlibris/oradata/dps/dps_ts1_01.dbf
          393216  8
TSLOB      /exlibris/oradata/dps/dps_tslob01.dbf
          512000  5
TS_DEF_DAT /exlibris/oradata/dps/dps_ts_def_dat_01.dbf
          1048576  100
TS_DEP_DAT /exlibris/oradata/dps/dps_ts_dep_dat_01.dbf
          131072  28
TS_DEP_DAT /exlibris/oradata/dps/dps_ts_dep_dat_02.dbf
          131072  29
TS_DEP_DAT /exlibris/oradata/dps/dps_ts_dep_dat_03.dbf
          131072  30
TS_DEP_DAT /exlibris/oradata/dps/dps_ts_dep_dat_04.dbf
          131072  31
TS_DEP_DAT /exlibris/oradata/dps/dps_ts_dep_dat_05.dbf
          131072  32
```

Enter CR to continue...

Resize Oracle Datafile (Util O/13/2)

This utility allows you to enlarge or reduce the size of an Oracle data file.

Note

Requires the EXL_DBA user name and password.

To change the size of an Oracle data file:

1. Enter option **2** from the Database Files menu.
2. At the following prompt, enter the EXL_DBA/EXL_DBA user name/password:

```
To resize a database file enter EXL_DBA username/password.  
username/password:
```

3. At the following prompt, enter the name of the tablespace:

```
Enter Tablespace name:
```

4. At the following prompt, enter the file name (including the full path) that you want to resize:

```
Enter file name to resize:
```

5. At the following prompt, enter the new file size:

```
Enter new file size (MB):
```

6. At the following prompt, enter y to continue:

```
confirm (y/[n]):
```

7. At the following prompt, type enter to continue:

```
resizing  
SQL*Plus: Release 10.2.0.4.0 - Production on Sat Jul 11 00:19:27 2009  
Copyright (c) 1982, 2007, Oracle. All Rights Reserved.  
idle> Connected.  
idle> idle>  
Database altered.  
idle> Disconnected from Oracle Database 10g Enterprise Edition Release 10.2.0.4.0 -  
64bit Production  
With the Partitioning, OLAP, Data Mining and Real Application Testing options  
Enter CR to continue...
```

Add File to Tablespace (Util O/13/3)

Tablespaces are composed of one or more data files. This utility allows you to add files to tablespaces. If a tablespace does not have enough free space for these files, it needs to be expanded. For information on expanding tablespaces, see [Database Tablespaces \(Util O/17\)](#).

Note

This utility requires the EXL_DBA user name and password.

To add a data file to a tablespace:

1. Enter option **3** from the Database Files menu.
2. At the following prompt, enter the EXL_DBA/EXL_DBA user name/password:

```
To add a file to a tablespace enter EXL_DBA username/password.  
username/password:
```

3. At the following prompt, enter the name of the tablespace:

```
Enter Tablespace name:
```

4. At the following prompt, enter the new file name (including the full path):

```
Enter new file name:
```

5. At the following prompt, enter the file size:

```
Enter file size (MB):
```

6. At the following prompt, enter **y** to continue:

```
confirm (y/[n]):
```

7. At the following prompt, type enter to continue:

```
SQL*Plus: Release 10.2.0.4.0 - Production on Sat Jul 11 00:44:50 2009  
Copyright (c) 1982, 2007, Oracle. All Rights Reserved.
```

```

idle> Connected.

idle> idle>

Tablespace altered.

idle> Disconnected from Oracle Database 10g Enterprise Edition Release 10.2.0.4.0 -
64bit Production

With the Partitioning, OLAP, Data Mining and Real Application Testing options

Enter CR to continue...

```

Show Datafile Free Blocks by Kbytes (Util O/13/4)

This utility displays the free data file blocks. To display the free data file blocks, enter option 4 to display from the Database Files menu. For example:

```

Free Blocks Report by Kbytes
=====
TABLES  F                                BLOCK_ID
 KBYTES  NAME
-----  -  -----
-----  -  -----
TS_SHR  15                                1015936
4063232 /exlibris/oradata/dps/dps_ts_shr_id
_IDX
        x_01.dbf
TS_SHR  15                                508032
4063232 /exlibris/oradata/dps/dps_ts_shr_id
_IDX
        x_01.dbf
TS_SHR  15                                1523840
4063232 /exlibris/oradata/dps/dps_ts_shr_id
_IDX
        x_01.dbf
TS_SHR  15                                2031744
4063232 /exlibris/oradata/dps/dps_ts_shr_id
_IDX
        x_01.dbf

Enter CR to continue...

```

Show Datafile Free Blocks by BlockID (Util O/13/5)

This utility displays the free data file blocks per tablespace.

To display the free data file blocks:

1. Enter option **5** from the Database Files menu.
2. At the following prompt, enter the name of the tablespace:

```
Tablespace Name:
```

3. At the following prompt, specify the datafile number of the tablespace:

```
Datafile Number:
```

Note

To determine the datafile number, see [List of Database Files \(Util O/13/1\)](#).

4. At the following prompt, type enter to return to the Database Files menu:

```
Tablespace Name: TS0
Datafile Number: 7
Enter value for ts: Enter value for fl_no:
-----BLOCK_ID-----BYTES-----
                2539648                670040064
                2487680                425721856
                2001952                 786432
                1438744                 851968
                1438016                 524288
                1437552                 131072
                1435240                 196608
                1378232                 589824
                1024368                  65536
                 87008                   65536
                 72528                   65536

Enter CR to continue...
```

Database Free/Used Space (Util O/14)

The Database Free/Used Space menu allows you to display information about the free and used space in the tablespace.

```
0.14. Database Free/Used Space
-----
0. Exit Procedure
1. All Tablespaces Free Space Summary
2. Number of Free Extents by Size in a Tablespace
3. All Free Extents of Min Size in a Tablespace
4. Space Used by a Unit/Units in Each Tablespace
5. Space Used by a Group of Units in Each Tablespace
6. Coalesce Contiguous Free Extents
8. Primo Tablespaces Total/Free/Used Space Report
9. Clean Temporary Tablespace Free Storage
```

To access the Database Free/Used Space menu:

1. Log on to the server with the `dps` user.
2. Enter the following commands to display the Managing Oracle menu.

```
util o
```

3. Enter option **14** to display the Database Free/Used Space menu.

All Tablespaces Free Space Summary (Util O/14/1)

This utility provides details about free space in the Oracle `DBA_FREE_SPACE` table. It generates a report with the following four columns:

- **TABLESPACE_NAME**: The name of the tablespace.
- **TOTAL_FREE_SPACE**: The total amount of free space in the tablespace (in megabytes).
- **MAX_EXTENT**: The size of the largest contiguous extent of the tablespace (in megabytes).
- **NUM_FREE_EXTENTS**: The number of free extents in the tablespace.

If a tablespace has no free space left, it will not appear in the report.

Note

It is important to review this report from time to time to prepare additional resources for the database.

To display a summary of the free space for tablespaces, enter option **1** from the Database Free/Used Space menu. For example:

TABLESPACE_NAME	MAX_EXTENT	TOTAL_FREE_SPACE	NUM_FREE_EXTENTS
TS0	1048.70106870229007633587786259541984733		
639.351206106870229007633587786259541985			11
TS_HFRE_DAT	5245.88164885496183206106870229007633588		
1151.63261068702290076335877862595419847			5
SYSAUX	979.162870229007633587786259541984732824		
918.504549618320610687022900763358778626			107
UNDOTBS1	3904.20714503816793893129770992366412214		
2491.36854961832061068702290076335877863			43
TSLOB	408.036641221374045801526717557251908397		
395.467236641221374045801526717557251908			7
TS_EXL_DEF	127.069801526717557251908396946564885496		
127.069801526717557251908396946564885496			1
TS_SHR_DAT	3918.52751145038167938931297709923664122		
821.451236641221374045801526717557251908			71
TS_SHR_IDX	26651.0773740458015267175572519083969466		
3970.18088549618320610687022900763358779			96
TS_DEP_DAT	599.07908396946564885496183206106870229		
118.064854961832061068702290076335877863			20
TS_HDEC_IDX	245.634931297709923664122137404580152672		
117.314442748091603053435114503816793893			9
TS_JBPM_DAT	635.349007633587786259541984732824427481		
127.069801526717557251908396946564885496			5
TS_JBPM_IDX	127.069801526717557251908396946564885496		
127.069801526717557251908396946564885496			1
TS_HDEC_DAT	635.349007633587786259541984732824427481		
127.069801526717557251908396946564885496			5
TS_HDES_DAT	635.349007633587786259541984732824427481		
127.069801526717557251908396946564885496			5
USERS	7.9340458015267175572519083969465648855		
7.9340458015267175572519083969465648855			1
LOG	63.0346259541984732824427480916030534351		
63.0346259541984732824427480916030534351			1
TS_DEP_IDX	125.381374045801526717557251908396946565		
125.381374045801526717557251908396946565			1
TS_HFRE_IDX	2863.57300763358778625954198473282442748		
67.0368244274809160305343511450381679389			150
TS_SEARCH_DAT	2158.6858015267175572519083969465648855		
604.331969465648854961832061068702290076			6
TS_DEF_DAT	1023.56225954198473282442748091603053435		
1023.56225954198473282442748091603053435			1
SYSTEM	31.9550534351145038167938931297709923664		
2.00109923664122137404580152671755725191			127
TABLESPACE_NAME		TOTAL_FREE_SPACE	
	MAX_EXTENT		NUM_FREE_EXTENTS

```

-----
TS_REP_IDX          46.4004885496183206106870229007633587786
  46.0252824427480916030534351145038167939                                4
TS_HDEB_DAT          635.349007633587786259541984732824427481
  127.069801526717557251908396946564885496                                5
TS_HDEB_IDX          253.764396946564885496183206106870229008
  127.069801526717557251908396946564885496                                3
TS_HDEP_IDX          249.199389312977099236641221374045801527
  119.503145038167938931297709923664122137                                6
TS_SEARCH_IDX        127.007267175572519083969465648854961832
  127.007267175572519083969465648854961832                                1
TS_PRSV_IDX          118.252458015267175572519083969465648855
  118.252458015267175572519083969465648855                                1
TS_HDEP_DAT          635.349007633587786259541984732824427481
  127.069801526717557251908396946564885496                                5
TS1                  129.070900763358778625954198473282442748
  107.058809160305343511450381679389312977                                3
TS_PER_DAT           634.098320610687022900763358778625954198
  127.069801526717557251908396946564885496                                6
TS_PER_IDX           120.75383206106870229007633587786259542
  110.060458015267175572519083969465648855                                7
TS_HDEM_IDX          252.638778625954198473282442748091603053
  66.036274809160305343511450381679389313                                6
TS_PUB_IDX           126.319389312977099236641221374045801527
  125.944183206106870229007633587786259542                                3
TS_REP_DAT           192.66833587786259541984732824427480916
  125.068702290076335877862595419847328244                                22
TS_PRSV_DAT          419.230290076335877862595419847328244275
  126.06925190839694656488549618320610687                                5
TS_HDEM_DAT          1403.77111450381679389312977099236641221
  639.351206106870229007633587786259541985                                5
TS_HDES_IDX          252.638778625954198473282442748091603053
  125.068702290076335877862595419847328244                                5
TS_PUB_DAT           626.84433587786259541984732824427480916
  126.06925190839694656488549618320610687                                6
Temporary Tablespace Space Usage
TABLESPACE_NAME                                           SIZE M
-----
TEMP                                                         0
Sort Segments Usage (in Temporary Tablespace)
TABLESPACE_NAME                                           Total M
                Used M                                Free M
-----
TEMP                                                         5119
                12                                5107
Enter CR to continue...

```

Number of Free Extents by Size in a Tablespace (Util O/14/2)

This utility lists the number of extents of a certain size (truncated in megabytes) in the tablespace.

To display the free extents for a tablespace, enter

1. Enter option **2** from the Database Free/Used Space menu
2. At the following prompt, enter the tablespace name:

```
Enter Tablespace name:
```

3. At the following prompt, type enter to return to the Database Free/Used Space menu:

```
Enter Tablespace name: TS0
```

SIZE IN MB	NUM OF EXTENTS
639	1
406	1
0	9

```
Enter CR to continue...
```

All Free Extents of Min Size in a Tablespace (Util O/14/3)

This utility lists the exact size (in megabytes) of all free extents that are larger than a given size. You are prompted for the tablespace name and the minimum size (in megabytes) that you wish to investigate.

To display the free extents for a tablespace:

1. Enter option **3** from the Database Free/Used Space menu.
2. At the following prompt, enter the tablespace name:

```
Enter Tablespace name:
```

3. At the following prompt, enter the minimum size of the extents to display. Enter to **0** to display all of the extents.

```
Enter Min size (MB) of free extent [0=ALL]:
```

4. At the following prompt, type enter to return to the Database Free/Used Space menu:

```
Enter Tablespace name: TS0
Enter Min size (MB) of free extent [0=ALL]: 0
```

```

                                EXTENT_SIZE
-----
639.351206106870229007633587786259541985
406.223145038167938931297709923664122137
.812946564885496183206106870229007633588
.750412213740458015267175572519083969466
.562809160305343511450381679389312977099
.500274809160305343511450381679389312977
.187603053435114503816793893129770992366
.125068702290076335877862595419847328244
.062534351145038167938931297709923664122
.062534351145038167938931297709923664122
.062534351145038167938931297709923664122
Enter CR to continue...
```

Coalesce Contiguous Free Extents (Util O/14/6)

This utility is not required when using a locally managed tablespace. It is retained for backward compatibility (and will be removed in future versions).

Note

This utility requires the `EXL_DBA` user name and password.

Free space in a database may be composed of extents of various sizes. It is worthwhile to use this procedure to coalesce the contiguous free extents to create larger free extents. Perform this procedure periodically.

To coalesce free extents:

1. Enter option **6** from the Database Free/Used Space menu.
2. At the following prompt, enter the `EXL_DBA` user name and password:

```
To Coalesce Tablespaces enter EXL_DBA username/password.
username/password:
```

3. At the following prompt, type enter to return to the Database Free/Used Space menu:

```
SQL*Plus: Release 10.2.0.4.0 - Production on Sat Jul 11 20:37:29 2009
Copyright (c) 1982, 2007, Oracle. All Rights Reserved.
```

```

Connected to:

Oracle Database 10g Enterprise Edition Release 10.2.0.4.0 - 64bit Production
With the Partitioning, OLAP, Data Mining and Real Application Testing options

SQL> alter tablespace LOG coalesce;

alter tablespace SYSAUX coalesce;

alter tablespace SYSTEM coalesce;

alter tablespace TS0 coalesce;

alter tablespace TS1 coalesce;

alter tablespace TSLOB coalesce;

alter tablespace TS_P_DAT coalesce;

alter tablespace TS_P_IDX coalesce;

alter tablespace USERS coalesce;

Disconnected from Oracle Database 10g Enterprise Edition Release 10.2.0.4.0 - 64bit
Production

With the Partitioning, OLAP, Data Mining and Real Application Testing options

SQL*Plus: Release 10.2.0.4.0 - Production on Sat Jul 11 20:37:29 2009

Copyright (c) 1982, 2007, Oracle. All Rights Reserved.

SQL> Connected.

SQL> SQL>

'ALERTABLESPACE' || TABLESPACE_NAME || 'COALESCE;'
-----

alter tablespace LOG coalesce;

alter tablespace SYSAUX coalesce;

alter tablespace SYSTEM coalesce;

alter tablespace TS0 coalesce;

alter tablespace TS1 coalesce;

alter tablespace TSLOB coalesce;

alter tablespace TS_P_DAT coalesce;

alter tablespace TS_P_IDX coalesce;

```

```

alter tablespace USERS coalesce;

9 rows selected.

Tablespace altered.

Tablespace altered.

SQL> Disconnected from Oracle Database 10g Enterprise Edition Release 10.2.0.4.0 -
64bit Production

With the Partitioning, OLAP, Data Mining and Real Application Testing options

Enter CR to continue...

```

Tablespaces Total/Free/Used Space Report (Util O/14/8)

This utility lists the total space that each repository occupies in each tablespace and the amount of free space in the table. To display the total space each repository occupies, enter option **8** from the Database Free/Used Space menu.

For example:

NAME	TOTAL SIZE M
TS0	20480
TS_HFRE_D	5248
AT	
TSLOB	500
TS_EXL_DE	128
F	
TS_SHR_DA	4736
T	
TS_SHR_ID	32128
X	
TS_DEP_DA	640
T	
TS_HDEC_I	256
DX	
TS_JBPM_D	640

Clean Temporary Tablespace Free Storage (Util O/14/9)

In some cases, the temporary tablespace does not free non-used pages quickly enough. This utility manually frees these pages.

To clean temporary tablespace:

1. Enter option **9** from the Database Free/Used Space menu.
2. At the following prompt, enter the name of the temporary tablespace:

```
To Free Temporary Segments Enter Temporary Tablespace:
```

3. At the following prompt, enter the EXL_DBA/EXL_DBA user name and password:

```
Enter EXL_DBA username/password:
```

4. At the following prompt, type enter to return to the Database Free/Used Space menu:

```
QL*Plus: Release 10.2.0.4.0 - Production on Sat Jul 11 12:52:41 2009  
Copyright (c) 1982, 2007, Oracle. All Rights Reserved.  
idle> Connected.  
idle>  
Tablespace altered.  
idle> idle> Disconnected from Oracle Database 10g Enterprise Edition Release  
10.2.0.4.0 - 64bit Production  
With the Partitioning, OLAP, Data Mining and Real Application Testing options  
Enter CR to continue...
```

Database Tablespaces (Util O/17)

The Database Tablespace menu allows you to manage tablespaces.

```
0.17. Database Tablespaces  
-----  
0. Exit Procedure  
1. Create a Tablespace  
2. List Tablespace Files  
4. Show Tablespace Definitions
```

```
5. Show Tablespace Allocated/Free/Used Space
```

```
Please select [exit]:
```

To access the Database Tablespaces menu:

1. Log on to the server with the `dps` user.
2. Enter the following commands to display the Managing Oracle menu.

```
util o
```

3. Enter option **17** to display the Database Tablespaces menu.

Create a Tablespace (Util O/17/1)

Typically, all the required tablespaces are created during system installation. This utility allows you to create additional tablespaces.

To create a tablespace:

1. Enter option **1** from the Database Tablespaces menu.
2. At the following prompt, enter the `EXL_DBA/EXL_DBA` user name and password:

```
To Create a new Tablespace, Enter EXL_DBA username/password.
```

```
username/password:
```

3. At the following prompt, enter the name of the new tablespace:

```
Enter Tablespace name:
```

4. At the following prompt, enter the new file name (include full path):

```
Enter new file name (full path) :
```

5. At the following prompt, enter the size of the file:

```
Enter new file size (MB):
```

6. At the following prompt, enter the allocation type (AUTO or UNIFORM):

```
=====
Tablespaces can be created with a UNIFORM size for all extents
or with allocation type AUTOALLOCATE which means
Oracle will decide how to define extents
Util o 17 4 can be used to see current definitions
for existing tablespaces
=====
Tablespace Allocation Type : [AUTO/UNIFORM]
```

7. If you have selected UNIFORM, enter the uniform size of each extent:

```
UNIFORM SIZE : [128K/1M/4M/128M/1920M]
```

8. At the following prompt, enter y to confirm:

```
Tablespace: TEST1
File: /exlibris/oradata/prm0/test1_01.dbf
File size: 100MB
Allocation : UNIFORM SIZE 4M
confirm (y/[n]):
```

9. At the following prompt, enter y to continue:

```
CREATE TABLESPACE TEST1
DATAFILE '/exlibris/oradata/prm0/test1_01.dbf' SIZE 100M
EXTENT MANAGEMENT LOCAL UNIFORM SIZE 4M
SEGMENT SPACE MANAGEMENT AUTO
ONLINE;
Enter CR to continue...
```

10. At the following prompt, enter y to continue:

```
SQL*Plus: Release 10.2.0.4.0 - Production on Sat Jul 11 15:13:43 2009

Copyright (c) 1982, 2007, Oracle. All Rights Reserved.

idle> Connected.

idle> idle> 2 3 4 5

Tablespace created.

idle> idle> Disconnected from Oracle Database 10g Enterprise Edition Release
10.2.0.4.0 - 64bit Production

With the Partitioning, OLAP, Data Mining and Real Application Testing options

Enter CR to continue...
```

11. At the following prompt, type enter to return to the Database Tablespaces menu:

```
SQL*Plus: Release 10.2.0.4.0 - Production on Sat Jul 11 15:13:43 2009

Copyright (c) 1982, 2007, Oracle. All Rights Reserved.

idle> Connected.

idle> idle> 2 3 4 5

Tablespace created.

idle> idle> Disconnected from Oracle Database 10g Enterprise Edition Release
10.2.0.4.0 - 64bit Production

With the Partitioning, OLAP, Data Mining and Real Application Testing options

Enter CR to continue...
```

List Tablespace Files (Util O/17/2)

This utility lists the tablespaces in the database.

To list a tablespace's files:

1. Enter option **2** from the Database Tablespaces menu.
2. At the following prompt, enter the name of the tablespace:

```
Enter Tablespace name:
```

3. At the following prompt, type enter to return to the Database Tablespaces menu:

```

Enter Tablespace name: TS0
Tablespace TS0 consist of the following files:
NAME
  SIZE K  F
-----
-----
/exlibris/oradata/dps/dps_ts0_01.dbf
20971520  7

Enter CR to continue...

```

Show Tablespaces Definition (Util O/17/4)

You may need to increase the space that certain database tables use. All tablespaces in Rosetta are created as locally-managed tablespaces. When working with locally-managed tablespaces, the word **local** appears in the EXT-MGMT (extent management) column.

When using locally-managed tablespaces, the following types of extent allocation appear in the `ALLOC_TYP` column:

- **SYSTEM** (Auto Allocate)—In auto allocation, Oracle automatically assumes full control, allocating extents as needed and taking into account the initial allocation of the table/index as configured in the create table/index command. For example, if initial allocation of the table/index is 1GB, Oracle might split the 1GB into 50 extents, a single extent, or any other combination of extents.
- **UNIFORM**—In uniform allocation, the DBA determines a standard size for all the extents in the tablespace. All the extents in the tablespace are of that size, without regard to the extent definitions in the Create Table command. The DBA determines which table is assigned to which tablespace depending on the table size. Hence, in uniform allocation, there is no fragmentation, and space utilization is optimal. For example, when creating a tablespace with a uniform extent size of 10 MB, five extents will be used for a table of 50 MB.

To display the tablespace definitions, enter option **4** from the Database Tablespaces menu.

TS_NAME	EXT_MGMT	ALLOC_TYP	INIT_EXT	NEXT_EXT	TYPE	STAT
LOG	LOCAL	SYSTEM	65536		PERM	ONL
SYSAUX	LOCAL	SYSTEM	65536		PERM	ONL
SYSTEM	LOCAL	SYSTEM	65536		PERM	ONL
TEMP	LOCAL	UNIFORM	1048576	1048576	TEMP	ONL
TS0	LOCAL	SYSTEM	65536		PERM	ONL
TS1	LOCAL	SYSTEM	65536		PERM	ONL
TSLOB	LOCAL	SYSTEM	65536		PERM	ONL
TS_DEF_DAT	LOCAL	SYSTEM	65536		PERM	ONL
TS_DEP_DAT	LOCAL	SYSTEM	65536		PERM	ONL
TS_DEP_IDX	LOCAL	SYSTEM	65536		PERM	ONL
TS_EXL_DEF	LOCAL	SYSTEM	65536		PERM	ONL
TS_HDEB_DAT	LOCAL	SYSTEM	65536		PERM	ONL
TS_HDEB_IDX	LOCAL	SYSTEM	65536		PERM	ONL

```

TS_HDEC_DAT    LOCAL      SYSTEM      65536          PERM  ONL
TS_HDEC_IDX    LOCAL      SYSTEM      65536          PERM  ONL
TS_HDEM_DAT    LOCAL      SYSTEM      65536          PERM  ONL
TS_HDEM_IDX    LOCAL      SYSTEM      65536          PERM  ONL
TS_HDEP_DAT    LOCAL      SYSTEM      65536          PERM  ONL
TS_HDEP_IDX    LOCAL      SYSTEM      65536          PERM  ONL
TS_HDES_DAT    LOCAL      SYSTEM      65536          PERM  ONL
TS_HDES_IDX    LOCAL      SYSTEM      65536          PERM  ONL
TS_NAME        EXT_MGMT   ALLOC_TYP   INIT_EXT      NEXT_EXT      TYPE  STAT
-----
TS_HFRE_DAT    LOCAL      SYSTEM      65536          PERM  ONL
TS_HFRE_IDX    LOCAL      SYSTEM      65536          PERM  ONL
TS_JBPM_DAT    LOCAL      SYSTEM      65536          PERM  ONL
TS_JBPM_IDX    LOCAL      SYSTEM      65536          PERM  ONL
TS_PER_DAT     LOCAL      SYSTEM      65536          PERM  ONL
TS_PER_IDX     LOCAL      SYSTEM      65536          PERM  ONL
TS_PRSV_DAT    LOCAL      SYSTEM      65536          PERM  ONL
TS_PRSV_IDX    LOCAL      SYSTEM      65536          PERM  ONL
TS_PUB_DAT     LOCAL      SYSTEM      65536          PERM  ONL
TS_PUB_IDX     LOCAL      SYSTEM      65536          PERM  ONL
TS_REP_DAT     LOCAL      SYSTEM      65536          PERM  ONL
TS_REP_IDX     LOCAL      SYSTEM      65536          PERM  ONL
TS_SEARCH_DA   LOCAL      SYSTEM      65536          PERM  ONL
T
TS_SEARCH_ID   LOCAL      SYSTEM      65536          PERM  ONL
X
TS_SHR_DAT     LOCAL      SYSTEM      65536          PERM  ONL
TS_SHR_IDX     LOCAL      SYSTEM      65536          PERM  ONL
UNDOTBS1      LOCAL      SYSTEM      65536          UNDO  ONL
TS_NAME        EXT_MGMT   ALLOC_TYP   INIT_EXT      NEXT_EXT      TYPE  STAT
-----
USERS          LOCAL      UNIFORM     40960          40960        PERM  ONL

```

Enter CR to continue...

In addition to the extent management types, this utility display the following information for each tablespace:

- Segment allocation
- Tablespace (for permanent or temporary objects or for undo segments)
- Tablespace status (online or offline)

Show Tablespace Allocated/Free/Used Space (Util O/17/5)

This utility displays the following parameters for a tablespace:

- Total tablespace size
- Amount of free space
- Amount of used space

To display allocated, free, and used space for a tablespace:

1. Enter option **5** from the Database Tablespaces menu.
2. At the following prompt, enter the name of the tablespace:

```
Enter Tablespace name :
```

3. At the following prompt, type enter to return to the Database Tablespaces menu:

```
Enter Tablespace name : TS0
Tablespace TS0 :
-----
TOTAL SIZE M
-----
                20480
TOTAL FREE M
-----
                1048
TOTAL USED M
-----
                19430
Enter CR to continue...
```

Oracle Statistics (Util O/18)

The Oracles Statistics menu allows you to display Oracle statistics.

```
0.18. Oracle Statistics
-----
0. Exit Procedure
1. Performance Statistics
2. Rollback Segments Definitions
3. Rollback Segments Dynamic Allocation
4. View Long Operations
5. IO Statistics
6. Sort Operations
Please select [exit]:
```

To access the Oracle Statistics menu:

1. Log on to the server with the `dps` user.
2. Enter the following commands to display the Managing Oracle menu.

```
util o
```

3. Enter option **18** to display the Oracle Statistics menu.

Performance Statistics (Util O/18/1)

This utility provides Oracle performance statistics for fine-tuning your database. To display the performance statistics, enter option **1** from the Oracle Statistics menu.

```
SYSTEM GLOBAL AREA (sga)
                                BYTES
                                1577058304
=====
BUFFER CACHE HIT RATIO (db_block_buffers)
                                GETS                                MISSES
RATIO
                                20163618477                            885918809
095.61%
=====
STATISTIC (db_block, DBWR, sort_area)
NAME                                VALUE
opened cu                            558
rsors cur
rent
db block                            1167140510
gets
consisten                            18996477969
t gets
physical                            885918809
reads
physical                            8233215
writes
DBWR chec                            79830
kpoints
redo log                            635
space req
NAME                                VALUE
uests
sorts (me                            6336373
mory)
sorts (di                            0
```

```
sk)
Enter CR to continue...
```

Rollback Segments Definitions (Util O/18/2)

This utility displays the rollback segments definitions.

To display the rollback segments definitions:

1. Enter option **2** from the Oracle Statistics menu.
2. At the following prompt, type enter to continue:

```
SYSTEM GLOBAL AREA (sga)
BYTES
734003200
=====
BUFFER CACHE HIT RATIO (db_block_buffers)
GETS MISSES RATIO
4054336 225243 94.44%
=====
STATISTIC (db_block, DBWR, sort_area)
NAME VALUE
opened cursors current 32
db block gets 937066
consistent gets 3117272
physical reads 225243
physical writes 92082
DBWR checkpoints 37
redo log space requests 0
sorts (memory) 105305
sorts (disk) 1
Enter CR to continue...
```

3. At the following prompt, type enter to return to the Oracle Statistics menu:

```

=====
DATA DICTIONARY CACHE (shared_pool_size)

GETS MISSES RATIO

1442213 22892 98.41%

=====

LIBRARY CACHE (shared_pool_size)

EXECUTIONS MISSES LIBCACHEPROZ

552613 1160 99.79%

Enter CR to continue...

```

Rollback Segments Dynamic Allocation (Util O/18/3)

This utility displays the rollback segments dynamic allocation. To display the rollback segments dynamic allocation, enter option **3** from the Oracle Statistics menu. For example:

NAME	EXT	RSSIZE	WRITES	SHRN	AVGSHR	WRAPS	CUREXT	WAITS
SYST	6	385024	29064	0	0	1	1	0
_SYS	3	1171456	#####	309	4014663	####	2	113
_SYS	3	1171456	#####	304	3679070	####	2	88
_SYS	3	1171456	#####	308	3754063	####	2	107
_SYS	3	1171456	#####	284	4133613	####	2	102
_SYS	3	1171456	#####	317	3719426	####	1	90
_SYS	3	1171456	#####	314	3783138	####	2	87
_SYS	3	1171456	#####	295	3865957	####	1	93
_SYS	3	1171456	#####	298	3816042	####	2	98
_SYS	3	1171456	#####	303	3960710	####	1	105
_SYS	3	1171456	#####	314	3774998	####	2	112
_SYS	2	122880	#####	303	3645575	####	1	100
_SYS	3	1171456	#####	317	3863729	####	2	95
_SYS	3	1171456	#####	281	3891578	####	2	99
_SYS	3	1171456	#####	287	3807710	####	2	91
_SYS	3	1171456	#####	27	1509755	185	2	125
_SYS	4	253952	#####	14	1380937	84	0	100
_SYS	3	188416	#####	16	1900544	95	1	107
_SYS	4	2220032	233278526	2	1048576	12	2	18
_SYS	3	1171456	234901688	2	2097152	18	1	19
_SYS	3	1171456	7460096	2	1572864	17	2	0
NAME	EXT	RSSIZE	WRITES	SHRN	AVGSHR	WRAPS	CUREXT	WAITS
_SYS	3	1171456	5751310	6	644437	50	2	4

```

_SYS      3      1171456 #####      285      3906635 #####      1      113
_SYS      3      188416  #####      302      3921743 #####      0      111
_SYS      3      1171456 #####      314      3849718 #####      2      100
_SYS      4      2220032 #####      300      3982185 #####      2       85
_SYS      3      1171456 #####      280      3929585 #####      2      100
_SYS      3      1171456 #####      299      3786841 #####      2       84
_SYS      3      1171456 #####      296      4095557 #####      2      104
_SYS      4      2220032 #####      291      4166603 #####      3       95
Enter CR to continue...

```

View Long Operations (Util O/18/4)

This utility displays Oracle long operations, if they occur in the system at the time the utility is run. The following information displays:

- **SID:** session identifier.
- **OPNAME:** operation name.
- **TARGET:** the object on which the operation is being performed.
- **DONE SO FAR:** percentage of work already done.

To display the Oracle long operations:

1. Enter the following commands to display the Managing Oracle menu:

```
util o
```

2. Enter option **18** to display the Oracle Statistics menu.
3. Enter option **4**.
4. At the following prompt, type `ctrl-c` to exit the display:

```

Long Operation Currently running :

To stop do Ctrl C

```

IO Statistics (Util O/18/5)

This utility displays the following information:

- **BLOCK_GETS**—block gets for this session.
- **CONSISTENT_GETS**—consistent gets for this session.
- **PHYSICAL_READS**—physical reads for this session.

- **BLOCK_CHANGES**—block changes for this session.
- **CONSISTENT_CHANGES**—consistent changes for this session.

To display I/O statistics, enter option **5** from the Oracle Statistics menu. For example:

```

TO STOP DO ctrl C
BLOCK_GETS CONSISTENT_GETS PHYSICAL_READS BLOCK_CHANGES CONSISTENT_CHANGES
1106249      86187425      2012771      553254      36893

1106270      86187335      2012766      553279      36893

1106362      86187448      2012767      553383      36894

```

Type `cntl-c` to exit the display.

Sort Operations (Util O/18/6)

This utility displays sort operations if they occur in the system when the utility is running. To display sort operations, enter option **6** from the Oracle Statistics menu. For example:

```

Sort Operations in the system:
V23D_ROS00      793      60991TEMP      TEMPORARYLOB_DATA      1      128
V23D_ROS00      788      5787TEMP      TEMPORARYLOB_DATA      1      128
V23D_ROS00      776      12755TEMP      TEMPORARYLOB_DATA      1      128
V23D_ROS00      408      34112TEMP      TEMPORARYLOB_DATA      1      128
V23D_ROS00      405      17903TEMP      TEMPORARYLOB_DATA      1      128

```

Type `cntl-c` to exit the display

Shared Pool (Util O/19)

The Shared Pool menu allows you to display information associated with shared pools.

```

0.19. Shared Pool
-----
0. Exit Procedure
1. Show SGA Buffers
2. Flush Shared Pool

```

```
Please select [exit]:
```

To access the Shared Pool menu:

1. Log on to the server with the `dps` user.
2. Enter the following commands to display the Managing Oracle menu.

```
util o
```

3. Enter option **19** to display the Oracle Statistics menu.

Show SGA Buffers (Util O/19/1)

This utility lists the various SGA buffers. To display SGA buffers, enter option **1** from the Shared Pool menu. For example:

```
NAME                                BYTES
-----                                -
fixed_sga                            2924832
buffer_cache                          335544320
log_buffer                             13848576
shared_io_pool                         33554432
KSF D SGA I/O b                       4190360
KTMC hash latch cleanup                14336

Enter CR to continue...
```

Flush Shared Pool (Util O/19/2)

This utility removes all of the Oracle objects from the shared pool.

To remove the Oracle objects from the shared pool:

1. Enter option **2** from the Shared Pool menu.
2. At the following prompt, enter the `EXL_DBA` user name and password:

```
To continue you will need to enter EXL_DBA/EXL_DBA username/password.
username/password:
```

Multi Threaded Server (Util O/20)

In a standard Oracle configuration, a separate server process is created on behalf of each user process. This is called a Dedicated Server Process (or Shadow process) because it acts only on behalf of the associated user process.

Oracle also supports the Shared Server Architecture (or Multi Threaded Server Architecture - MTS) in which there are several server processes, each serving several user processes.

In Rosetta, The MTS infrastructure exists in the database but is only implemented in special cases, and in coordination with Ex Libris. This group of utilities supports MTS.

The following menu allows you to manage these servers.

```
O.20. Multi Threaded Server
-----
0. Exit Procedure
1. Show MTS Parameters
2. Show Listener Services

Please select [exit]:
```

To access the Multi Threaded Server menu:

1. Log on to the server with the `dps` user.
2. Enter the following commands to display the Managing Oracle menu.

```
util o
```

3. Enter option **20** to display the Multi Threaded Server menu.

Show MTS Parameters (Util O/20/1)

This utility lists the MTS parameters. To display the MTS parameters, enter option **1** from Multi Threaded Server menu. For example:

```
EXL_DBA/EXL_DBA

SQL*Plus: Release 10.2.0.4.0 - Production on Sat Jul 11 16:45:09 2009

Copyright (c) 1982, 2007, Oracle. All Rights Reserved.

idle> Connected.

idle> idle> idle> Disconnected from Oracle Database 10g Enterprise Edition Release
```

10.2.0.4.0 - 64bit Production

With the Partitioning, OLAP, Data Mining and Real Application Testing options

Enter CR to continue...

Show Listener Services (Util O/20/2)

This utility lists the MTS dispatchers per instance. To display the MTS dispatchers, enter option **2** from the Multi Threaded Server menu. For example:

```
          MTS Dispatchers by Instance
          =====
Service "dps" has 1 instance(s).
  Instance "dps", status UNKNOWN, has 1 handler(s) for this service...
    Handler(s):
Service "dps.il-dtldev08c.corp.exlibrisgroup.com" has 1 instance(s).
  Instance "dps", status READY, has 1 handler(s) for this service...
    Handler(s):
Enter CR to continue...
```