

Create an Oracle8i Database in Windows

The following instructions apply to Oracle 8i. This document assumes that you are familiar with the administration and use of Oracle and that you meet all Prerequisites. Please refer to the documentation included with Oracle for detailed instructions where necessary.

Prerequisites (See Oracle8i Database Administrator's Guide for more information)

- The desired Oracle software is installed
- You have the operating system privileges associated with a fully operational database administrator
- There is sufficient memory available to start the Oracle instance
- There is sufficient disk storage space for the planned database on the computer that executes Oracle
- Decide on Your Instance Identifier (SID) 'PROD'
- Create the Initialization Parameter File (see sample file for more information)
- Plan the layout of the underlying operating system files that are to comprise your database.
- Familiarize yourself with the initialization parameters that comprise the initialization parameter file.
- Proper distribution of files to improve database performance
- Select the database character set.
- Consider what time zones your database must support
- Select the database block size
- Use an undo tablespace to manage your undo records, rather than rollback segments
- Develop a backup and recovery strategy to protect the database from failure

Directory Structure:

- C:\ORACLE\ORAADMIN\PROD
- C:\ORACLE\ORAADMIN\PROD\UDUMP
- C:\ORACLE\ORAADMIN\PROD\BDUMP
- C:\ORACLE\ORAADMIN\PROD\PFILE (Location for the init.ora file)
- C:\ORACLE\ORAADMIN\PROD\LOGS (Location for the log files)

- C:\ORACLE\ORADATA\PROD (Location of all datafiles)

- C:\ORACLE\ORCL817 (Location of the Oracle Software)

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Creating an Oracle Service.

On Windows, each instance requires a Windows service. This service must first be created with oradim:

- **ORADIM -NEW -SID prod -INTPWD manager -STARTMODE AUTO -PFILE C:\oracle\OraAdmin\prod\pfile\initprod.ora**

It can be verified that a Windows service was created by typing services.msc into the console. A service named OracleServiceprod (prod = ORACLE_SID) will be found.

Creating the database (**The INTERNAL account still valid in Oracle8i**)

To create the database you can execute the following script: (COPY and PASTE the script into NOTEPAD and execute it)

```
SPOOL C:\oracle\OraAdmin\prod\LOGS\prod.LOG
CONNECT INTERNAL/MANAGER
startup nomount pfile=C:\oracle\OraAdmin\prod\pfile\initprod.ora
CREATE DATABASE prod
  LOGFILE GROUP 1 ('C:\ORACLE\ORADATA\prod\LOG1A.ORA',
    'C:\ORACLE\ORADATA\prod\LOG1B.ORA') SIZE 60M,
  GROUP 2 ('C:\ORACLE\ORADATA\prod\LOG2A.ORA',
    'C:\ORACLE\ORADATA\prod\LOG2B.ORA') SIZE 60M,
  GROUP 3 ('C:\ORACLE\ORADATA\prod\LOG3A.ORA',
    'C:\ORACLE\ORADATA\prod\LOG3B.ORA') SIZE 60M,
  GROUP 4 ('C:\ORACLE\ORADATA\prod\LOG4A.ORA',
    'C:\ORACLE\ORADATA\prod\LOG4B.ORA') SIZE 60M
  DATAFILE 'C:\ORACLE\ORADATA\prod\SYS1prod.DBF' SIZE 1000M
  MAXLOGFILES 32
  MAXLOGMEMBERS 5
  MAXDATAFILES 255
  NOARCHIVELOG
  CHARACTER SET US7ASCII
;
CREATE TABLESPACE rbs1
DATAFILE 'C:\ORACLE\ORADATA\prod\RBS12.DBF' SIZE 800M AUTOEXTEND ON
NEXT 32K MAXSIZE 1512M
EXTENT MANAGEMENT LOCAL UNIFORM SIZE 128K
LOGGING
ONLINE
;
CREATE TABLESPACE rbs2
DATAFILE 'C:\ORACLE\ORADATA\prod\RBS21.DBF' SIZE 800M AUTOEXTEND ON
NEXT 32K MAXSIZE 1512M
EXTENT MANAGEMENT LOCAL UNIFORM SIZE 128K
LOGGING
ONLINE
;
CREATE ROLLBACK SEGMENT rbs_dummy TABLESPACE system
STORAGE (INITIAL 128K NEXT 128K MINEXTENTS 2);
```

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```
ALTER ROLLBACK SEGMENT rbs_dummy ONLINE
;
CREATE TEMPORARY TABLESPACE temporary_data
TEMPFILE 'C:\ORACLE\ORADATA\prod\TEMP01.DBF' SIZE 300M
EXTENT MANAGEMENT LOCAL UNIFORM SIZE 16M
;
CREATE TABLESPACE users
DATAFILE 'C:\ORACLE\ORADATA\prod\USER01.DBF' SIZE 200M
EXTENT MANAGEMENT LOCAL UNIFORM SIZE 1M
ONLINE
;
ALTER USER SYS IDENTIFIED BY MANAGER TEMPORARY TABLESPACE
TEMPORARY_DATA
;
ALTER USER SYSTEM IDENTIFIED BY MANAGER TEMPORARY TABLESPACE
TEMPORARY_DATA
;
-- Create 10 rollback segments.
create public rollback segment RB01 tablespace RBS1 storage(initial 1M OPTIMAL NULL);
create public rollback segment RB02 tablespace RBS1 storage(initial 1M OPTIMAL NULL);
create public rollback segment RB03 tablespace RBS1 storage(initial 1M OPTIMAL NULL);
create public rollback segment RB04 tablespace RBS1 storage(initial 1M OPTIMAL NULL);
create public rollback segment RB05 tablespace RBS1 storage(initial 1M OPTIMAL NULL);
ALTER ROLLBACK SEGMENT RB01 ONLINE;
ALTER ROLLBACK SEGMENT RB02 ONLINE;
ALTER ROLLBACK SEGMENT RB03 ONLINE;
ALTER ROLLBACK SEGMENT RB04 ONLINE;
ALTER ROLLBACK SEGMENT RB05 ONLINE;
#
create public rollback segment RB21 tablespace RBS2 storage(initial 1M OPTIMAL NULL);
create public rollback segment RB22 tablespace RBS2 storage(initial 1M OPTIMAL NULL);
create public rollback segment RB23 tablespace RBS2 storage(initial 1M OPTIMAL NULL);
create public rollback segment RB24 tablespace RBS2 storage(initial 1M OPTIMAL NULL);
create public rollback segment RB25 tablespace RBS2 storage(initial 1M OPTIMAL NULL);
ALTER ROLLBACK SEGMENT RB21 ONLINE;
ALTER ROLLBACK SEGMENT RB22 ONLINE;
ALTER ROLLBACK SEGMENT RB23 ONLINE;
ALTER ROLLBACK SEGMENT RB24 ONLINE;
ALTER ROLLBACK SEGMENT RB25 ONLINE;
#
connect internal/manager
@C:\ORACLE\ORCL817\RDBMS\admin\catalog.sql
@C:\ORACLE\ORCL817\RDBMS\admin\catsnmp.sql
@C:\ORACLE\ORCL817\RDBMS\admin\catexp7.sql
@C:\ORACLE\ORCL817\RDBMS\admin\catproc.sql
connect system/manager
@C:\ORACLE\ORCL817\SQLPLUS\ADMIN\pupbld.sql
connect internal/manager
SHUTDOWN IMMEDIATE;
spool off
```

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Notes:

The database name is specified with the create database statement.
After the database is created, the database name and the init parameter db_name must have the same value.

Both, SYS and SYSTEM are default users, created with the creation of the database.

SYS

SYS is the owner of the database and the owner of the data dictionary. Never create objects under SYS.

SYSTEM

SYSTEM is a privileged administration user, and typically owns Oracle provided tables other than the dictionary. Don't create your own objects under SYSTEM.

Sample Initialization Parameter File

```
db_name=prod
db_files=90
control_files=('c:\oracle\ORADATA\prod\controlprod01.ctl','c:\oracle\ORADATA\
prod\controlprod02.ctl')
#
db_block_size=4096

db_file_multiblock_read_count=15
db_block_buffers=100000
db_domain=prod.synarc.com

# Pools
JAVA_POOL_SIZE=31457280
LARGE_POOL_SIZE=1048576
shared_pool_size=100000000
#
log_checkpoint_interval=10000
log_checkpoint_timeout=0
log_buffer=163840
#
processes=300
dml_locks=1500
#
timed_statistics=true
max_dump_file_size=10240
global_names=FALSE
background_dump_dest=c:\oracle\OraAdmin\prod\BDUMP
user_dump_dest=c:\oracle\OraAdmin\prod\UDUMP
```

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```
#
remote_login_passwordfile=shared
text_enable=TRUE
compatible=8.1.7.0.0
instance_name=prod
service_names=prod
#
session_cached_cursors=1500
open_cursors=800
cursor_space_for_time=true
enqueue_resources=600
job_queue_processes=20
job_queue_interval=10
open_links=15
#
###Archiving Options
log_archive_start=true
log_archive_dest=c:\oracle\Archive\prod
log_archive_format=arch%s.arc
###To Enable Trace SET IT TO TRUE
SQL_TRACE=FALSE
sort_area_size=10000000
sort_area_retained_size=10000000
#
mts_servers=0
mts_max_servers=0
mts_max_dispatchers=0
optimizer_mode=CHOOSE
parallel_max_servers=0
hash_join_enabled=true
```