

# RedHat ES4 + Oracle 9i (9.2.0.4) Installation

## Checking Memory and Swap Space

	512M	1G
2GB	.	.

```
[root@soma]# grep memtotal /proc/meminfo  
[root@soma]# grep swaptotal /proc/meminfo
```

Temporary swap space (swap

```
[root@soma]# dd if=/dev/zero of=tmpswap bs=1k count=9000000  
[root@soma]# chmod 600 tmpswap  
[root@soma]# mkswap tmpswap  
[root@soma]# swapon tmpswap
```

## Temporary swap space

```
[root@soma]# swapoff tmpswap  
[root@soma]# rm tmpswap
```

## Checking Shared Memory

```
[root@soma]#cat /proc/sys/kernel/shmmax  
33554432  
[root@soma]# echo `expr 1024 * 1024 * 1024` > /proc/sys/kernel/shmmax  
[root@soma]# cat /proc/sys/kernel/shmmax  
1073741824
```

Oracle 9i(9.2.0)                    Redhat                    maximum shared memory size                    .                    shared memory

가

ORA-27123: unable to attach to shared memory segment.

## Checking /tmp space

```
/tmp 400 M
```

```
[root@soma]# df /tmp
```

```
/tmp
```

```
[root@soma]# mkdir /<AnotherFilesystem>/tmp
[root@soma]# chown root.root /<AnotherFilesystem>/tmp
[root@soma]# chmod 1777 /<AnotherFilesystem>/tmp
[root@soma]# export TEMP=/<AnotherFilesystem>          # used by Oracle
[root@soma]# export TMPDIR=/<AnotherFilesystem>        # used by Linux programs like the linker "ld"
```

```
[root@soma]# rmdir /<AnotherFilesystem>/tmp
[root@soma]# unset TEMP
[root@soma]# unset TMPDIR
```

## Checking Packages ( RPMs )

```
[root@soma]# rpm -q make
               compat-db
               compat-gcc-32
               compat-gcc-32-c++
               compat-oracle-rhel4
               compat-libcwait
               compat-libgcc-296
               compat-libstdc++-296
               compat-libstdc++-33
               gcc
```

gcc-c++  
gnome-libs  
gnome-libs-devel  
libaio-devel  
libaio  
openmotif21  
xorg-x11-deprecated-libs-devel  
xorg-x11-deprecated-libs

make-3.80-5  
compat-db-4.1.25-9  
package compat-gcc-32 is not installed  
package compat-gcc-32-c++ is not installed  
package compat-oracle-rhel4 is not installed -> (p4198954\_21\_LINUX.zip)  
package compat-libcwait is not installed -> (p4198954\_21\_LINUX.zip)  
compat-libgcc-296-2.96-132.7.2  
compat-libstdc++-296-2.96-132.7.2  
compat-libstdc++-33-3.2.3-47.3  
gcc-3.4.4-2  
gcc-c++-3.4.4-2  
gnome-libs-1.4.1.2.90-44.1  
package gnome-libs-devel is not installed  
package libaio-devel is not installed  
libaio-0.3.103-3  
make-3.80-5  
openmotif21-2.1.30-11.RHEL4.4  
xorg-x11-deprecated-libs-devel-6.8.2-1.EL.13.20  
xorg-x11-deprecated-libs-6.8.2-1.EL.13.20

RPM Package

install ins\_precomp.mk 가 .

## Sizing Disk Space For Oracle 9i

2.5G

## Creating Oracle User Accounts

```
[root@soma]# groupadd dba          # group of users to be granted SYSDBA system privilege  
[root@soma]# groupadd oinstall     # group owner of Oracle files  
[root@soma]# useradd -c "Oracle software owner" -g oinstall -G dba oracle  
[root@soma]# passwd oracle
```

## Creating Oracle Directory

Directory

```
[root@soma]# mkdir -p /oracle  
[root@soma]# chown oracle.oinstall /oracle
```

## Setting Oracle Environments

```
[oracle@soma]# vi /home/oracle/.bash_profile

export LD_ASSUME_KERNEL=2.4.19
export ORACLE_BASE=/oracle
export ORACLE_SID=ora
export ORACLE_HOME=$ORACLE_BASE/product/9.2.0.4
export PATH=$PATH:$ORACLE_HOME/bin
export NLS_LANG=AMERICAN;
export ORA_NLS33=$ORACLE_HOME/ocommon/nls/admin/data
LD_LIBRARY_PATH=$ORACLE_HOME/lib:/lib:/usr/lib
LD_LIBRARY_PATH=$LD_LIBRARY_PATH:/usr/local/lib
export LD_LIBRARY_PATH
```

## Patch

```
[root@soma]# unzip p3006854_9204_LINUX.zip
Archive: p3006854_9204_LINUX.zip
creating: 3006854/
inflating: 3006854/rhel3_pre_install.sh
inflating: 3006854/README.txt

[root@soma]# cd 3006854
[root@soma]# sh rhel3_pre_install.sh
Applying patch...
Patch successfully applied
```

runinstaller

가

Error occurred during initialization of VM

Unable to load native library: /tmp/OralInstall2003-10-25\_03-14-57PM/jre/lib/i386/libjava.so:  
symbol \_\_libc\_wait, version GLIBC\_2.0 not defined in file libc.so.6 with link time reference

## Runninstaller

```
[oracle@soma]# gunzip lnx_920_disk1.cpio.gz  
[oracle@soma]# gunzip lnx_920_disk2.cpio.gz  
[oracle@soma]# gunzip lnx_920_disk3.cpio.gz  
[oracle@soma]# cpio -idmv < lnx_920_disk1.cpio  
[oracle@soma]# cpio -idmv < lnx_920_disk2.cpio  
[oracle@soma]# cpio -idmv < lnx_920_disk3.cpio
```

Runninstaller

```
[oracle@soma]# cd /home/oracle/Disk1  
[oracle@Disk1]# ./runInstaller
```

popup

/etc/hosts

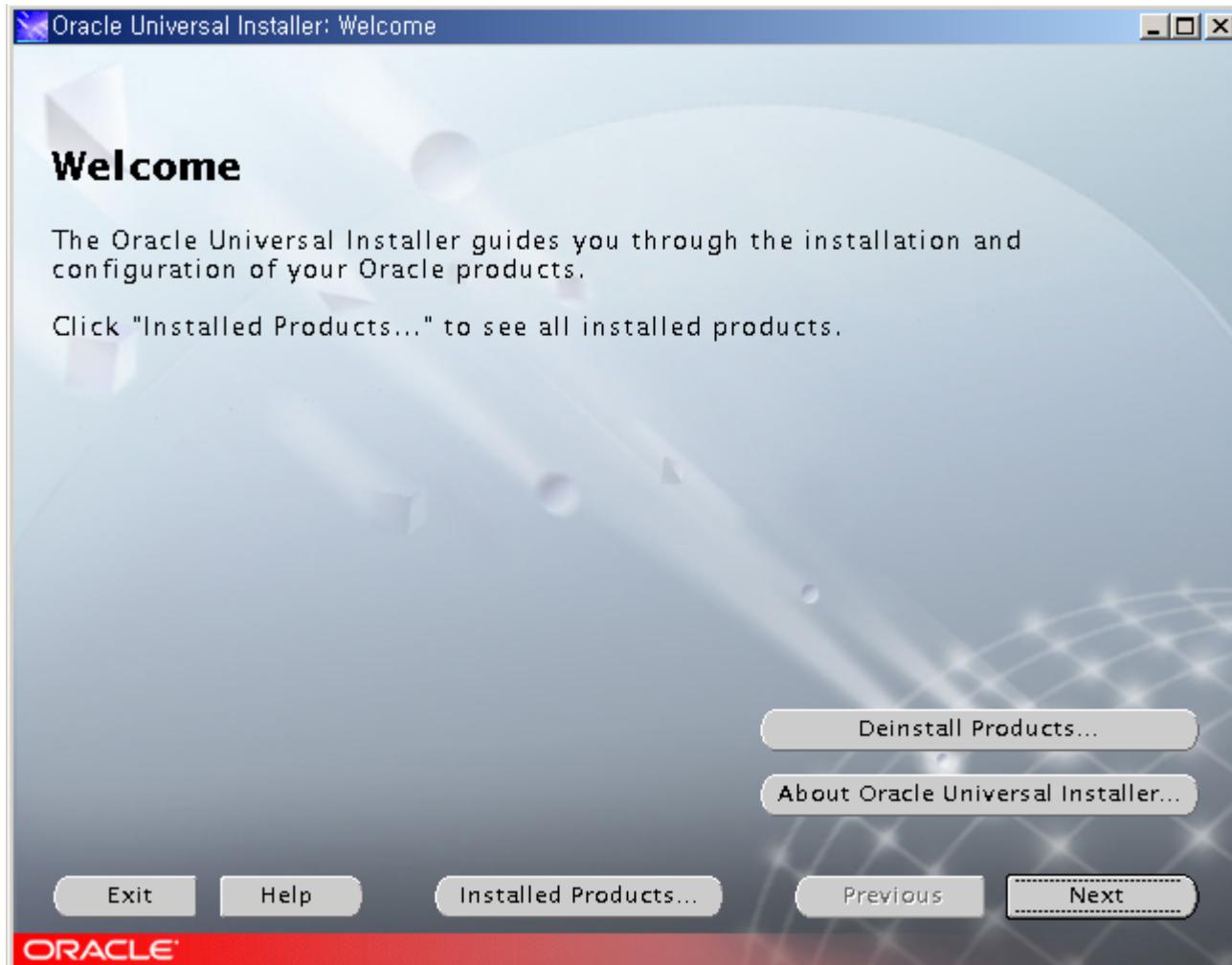
hostname

IP

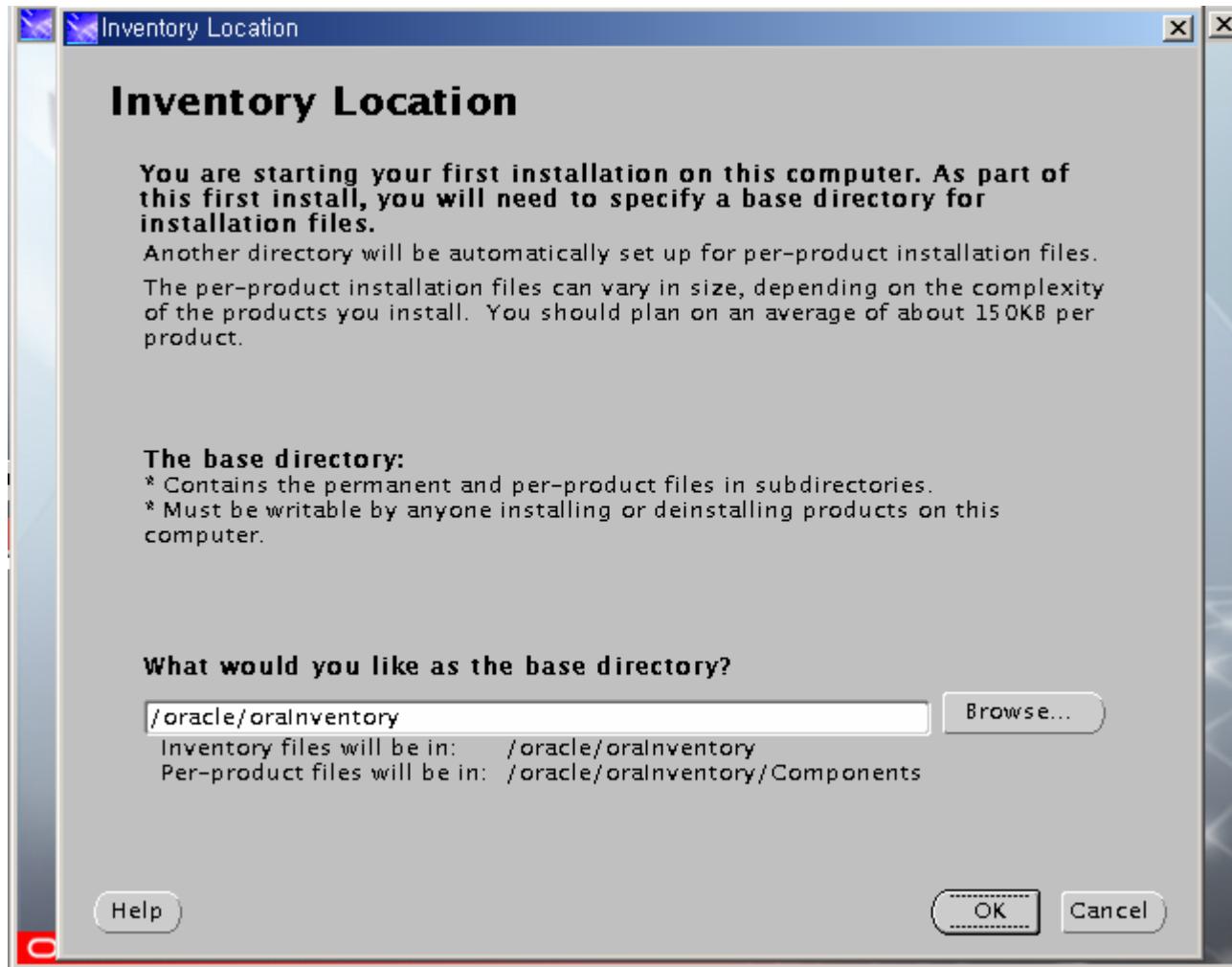
LOGOUT

runinstaller

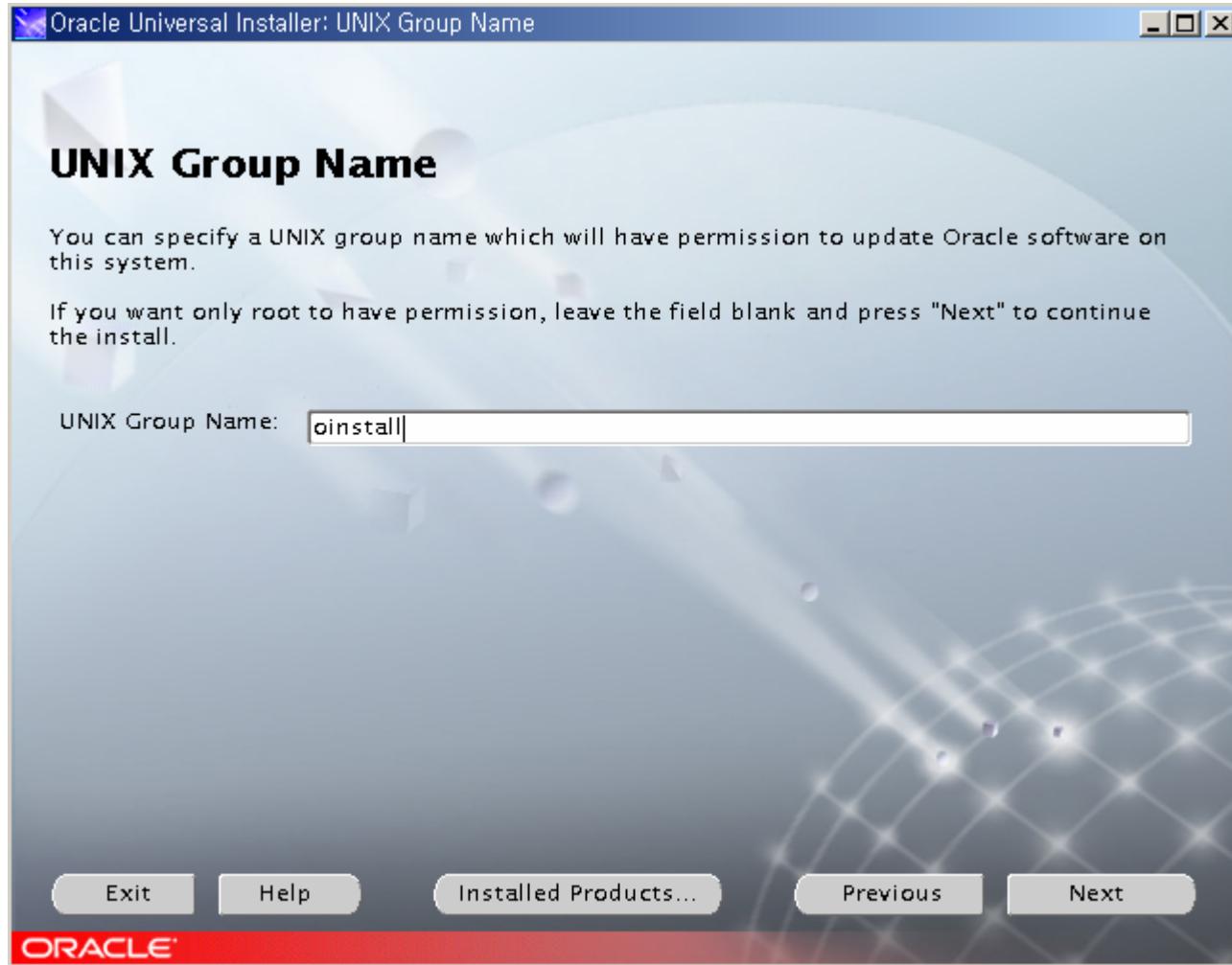
thrown when the IP address of a host cannot be determined...



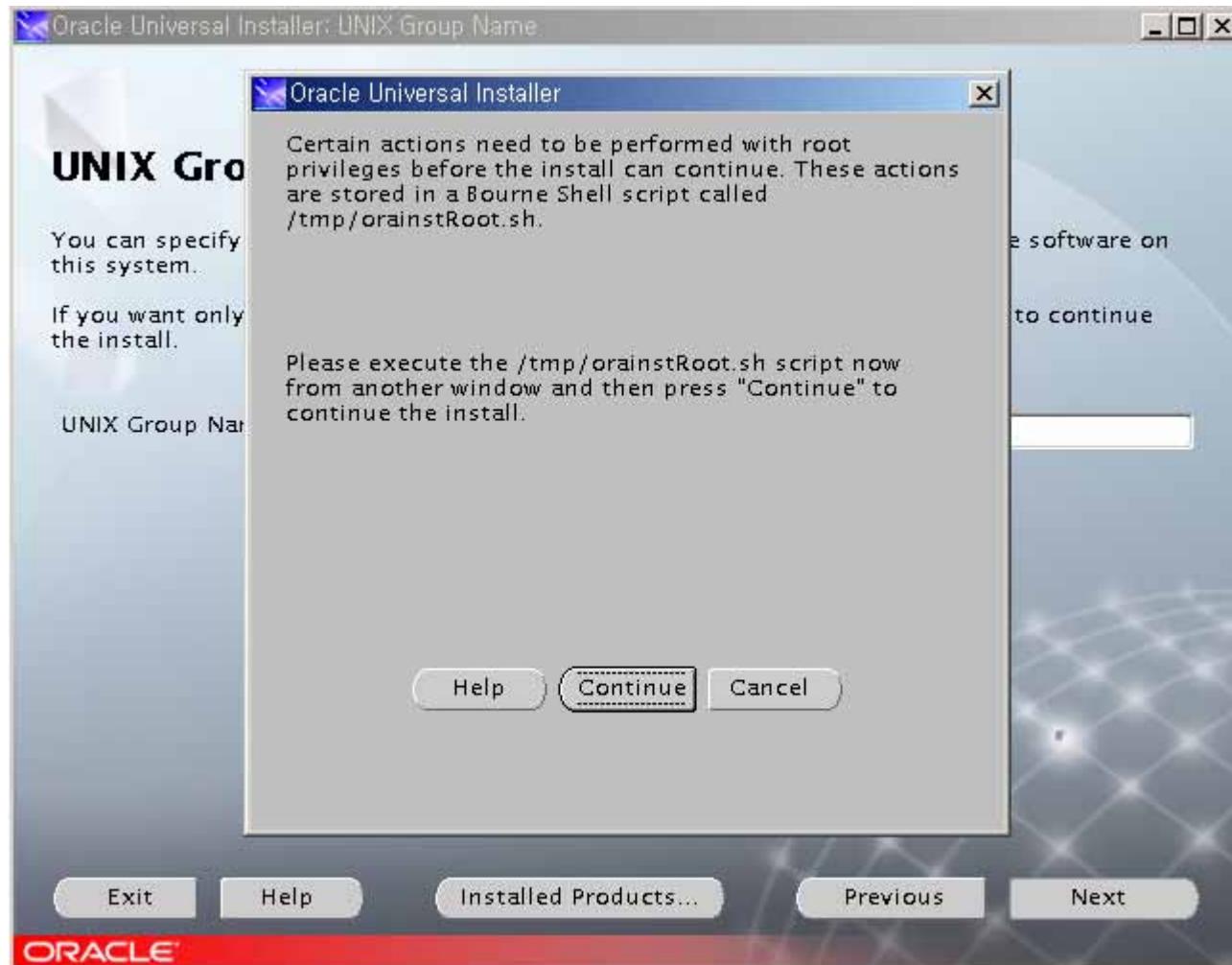
Next



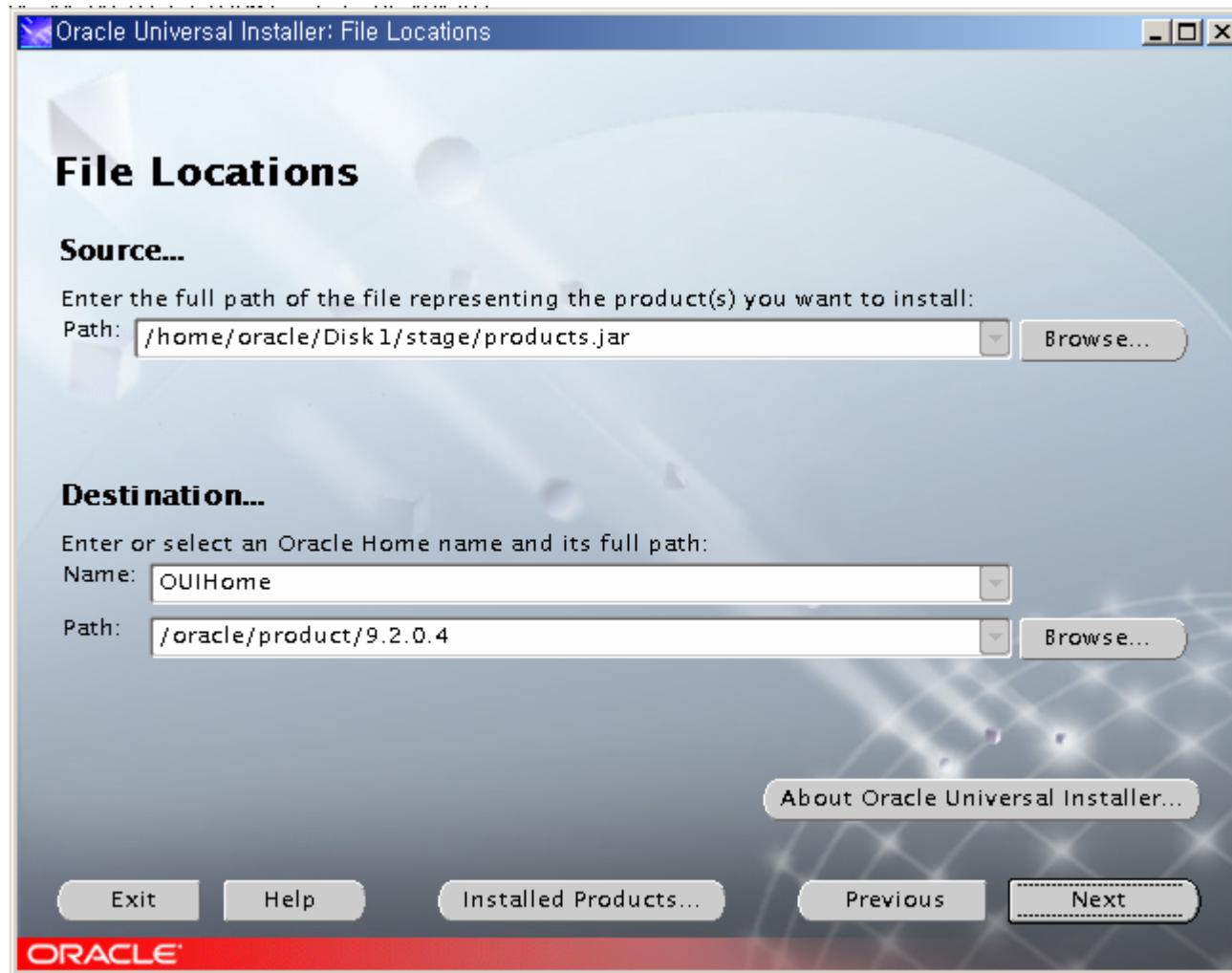
OK



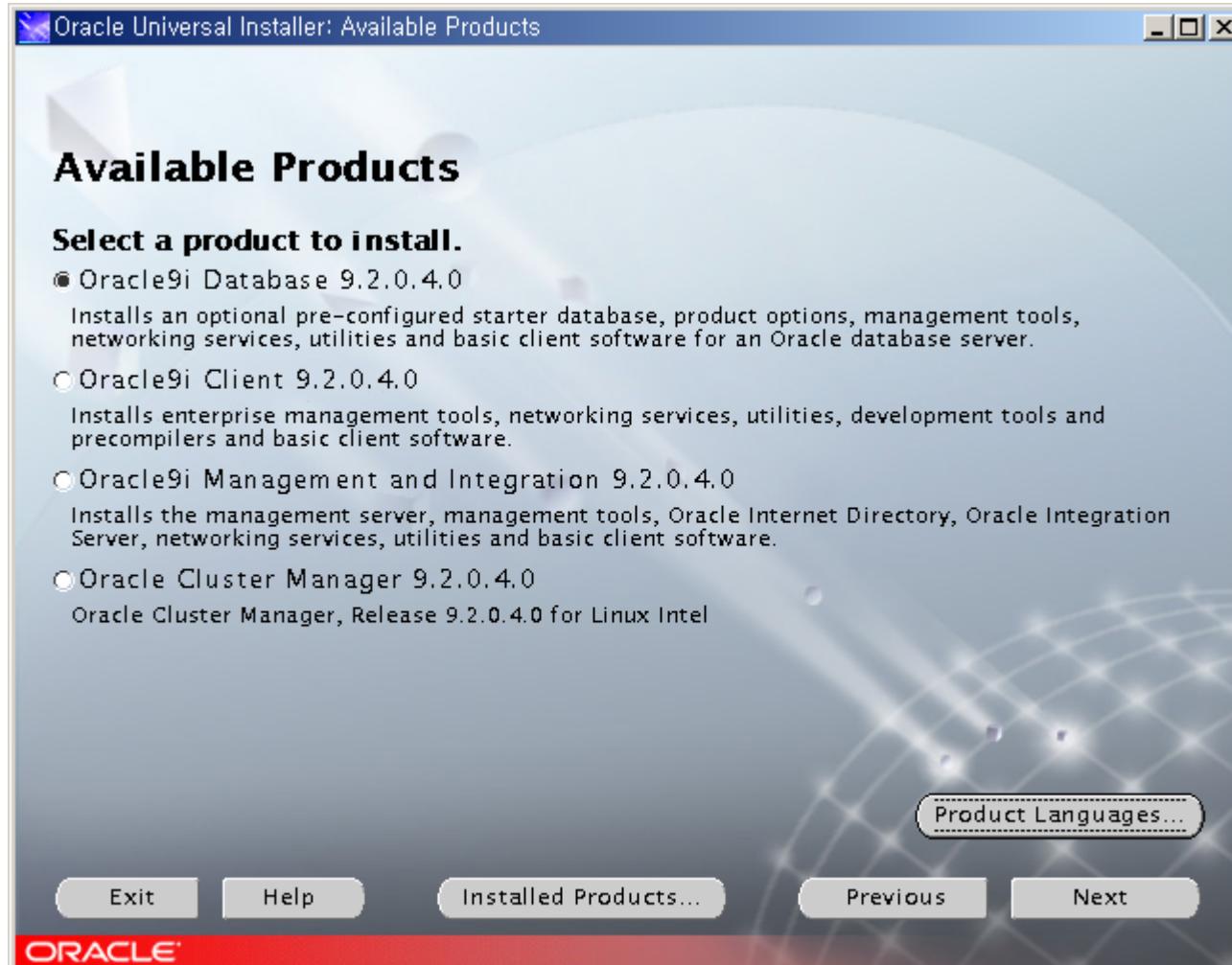
oinstall      Next



```
/tmp/orainstRoot.sh      continue
```



Next



Product Language..



Exit

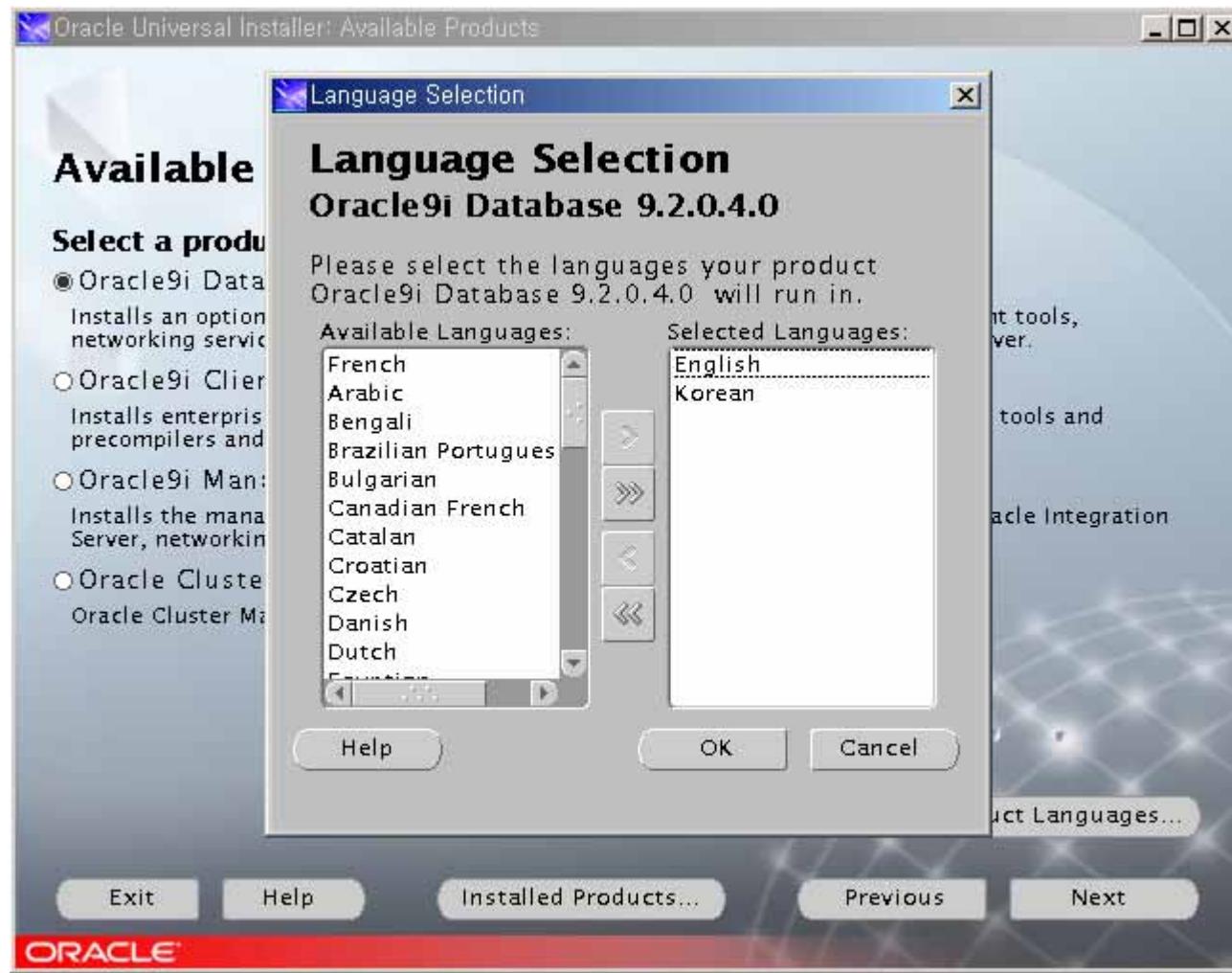
Help

Installed Products...

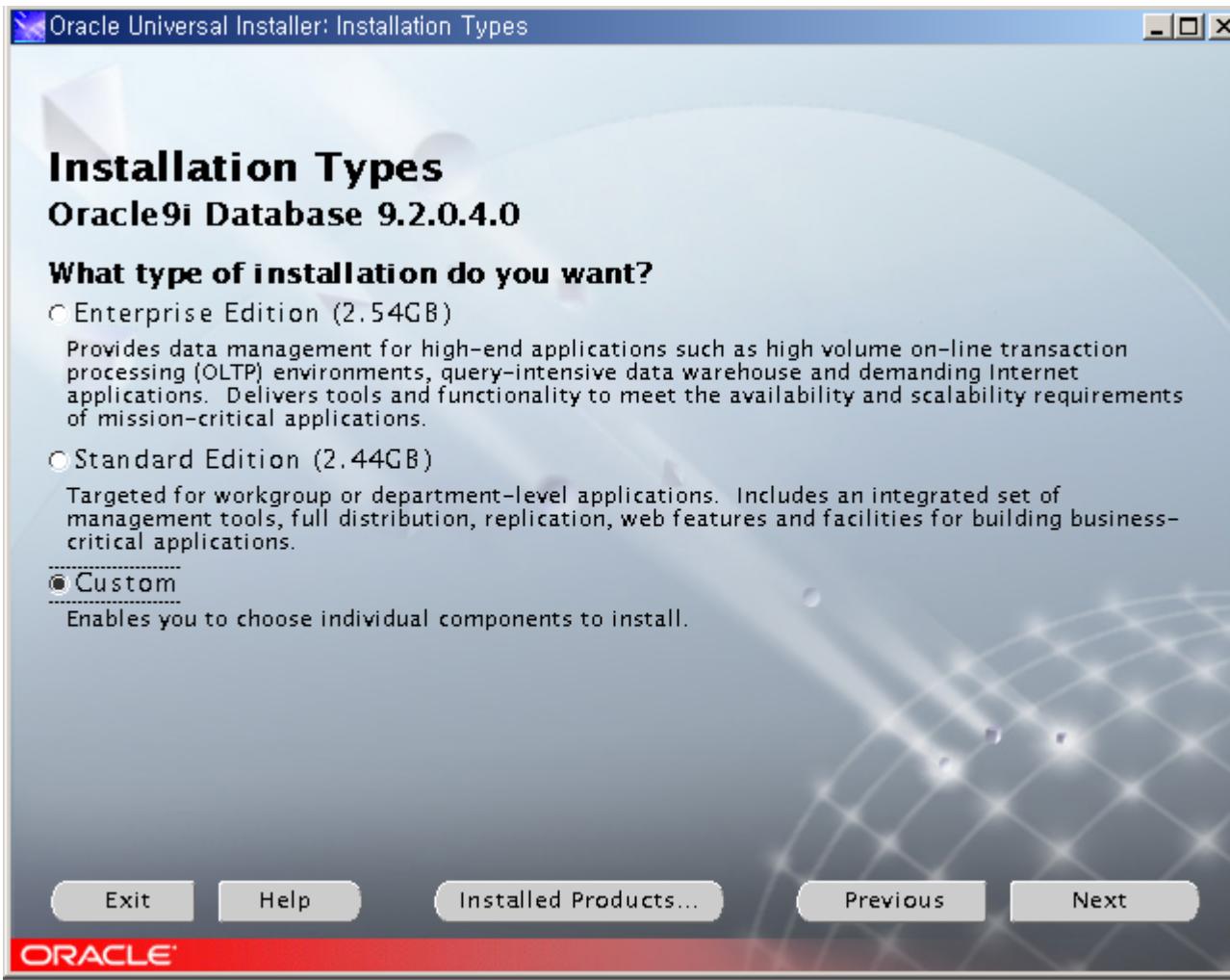
Previous

Next

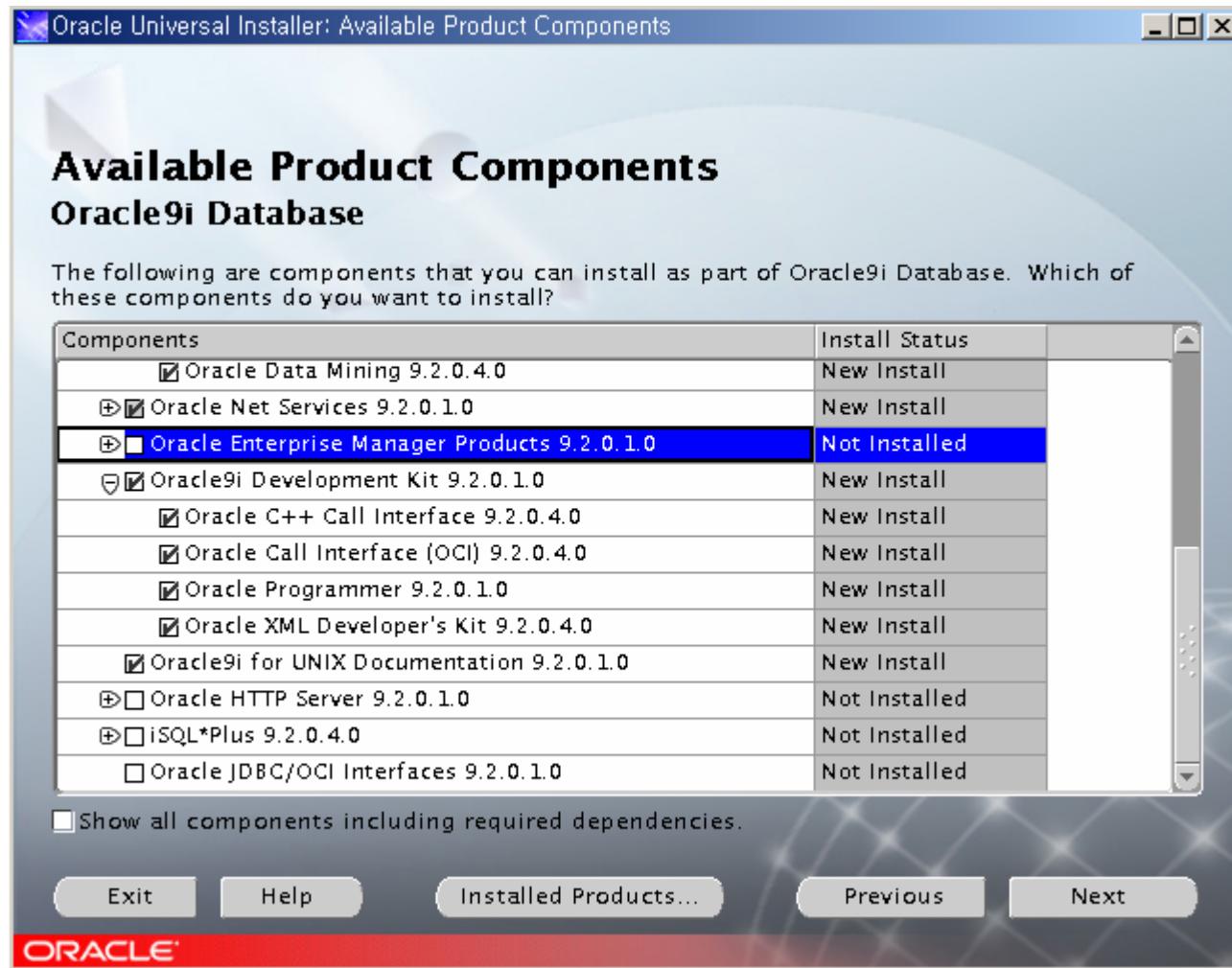
ORACLE

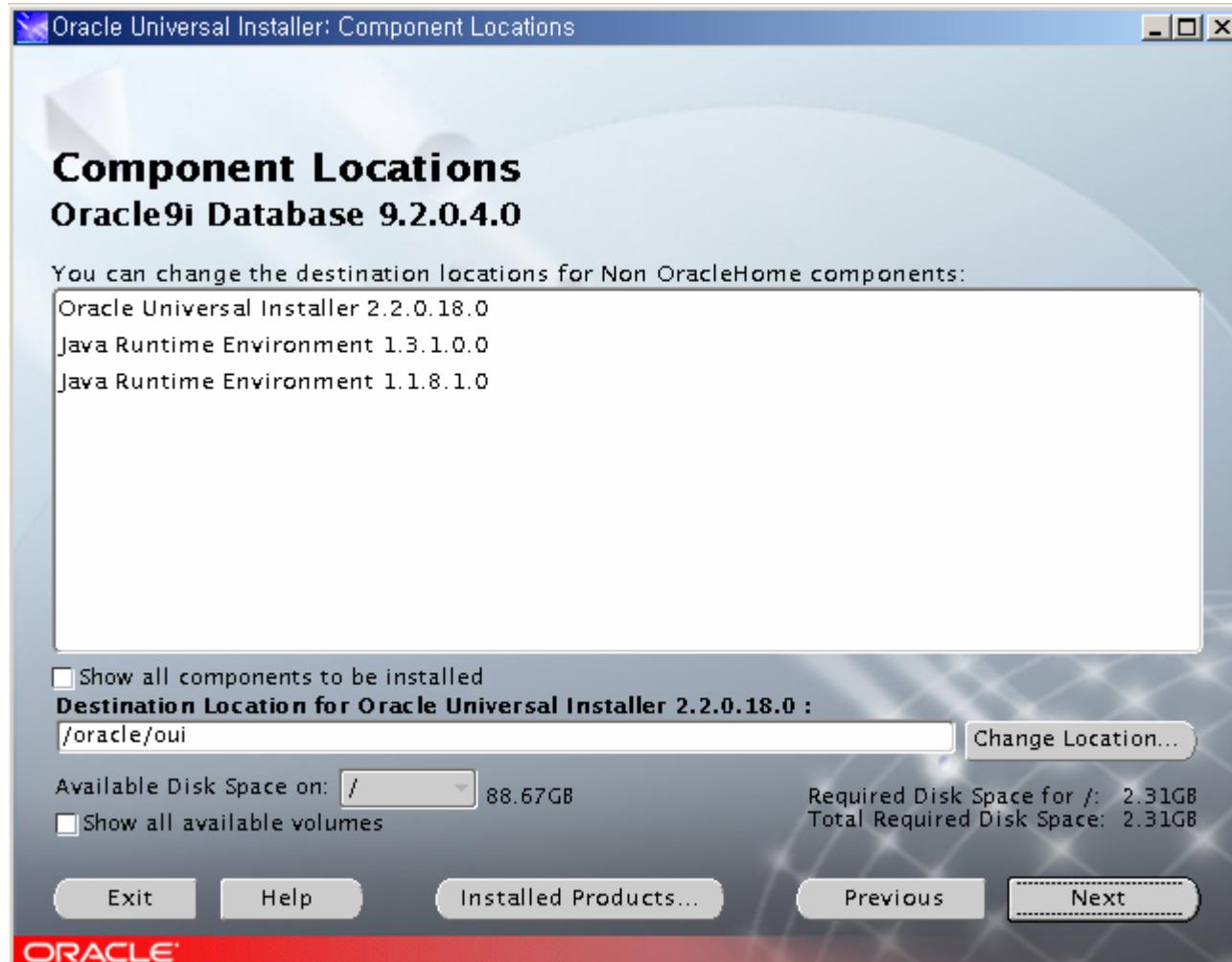


Korean 가 OK



Custom      Next

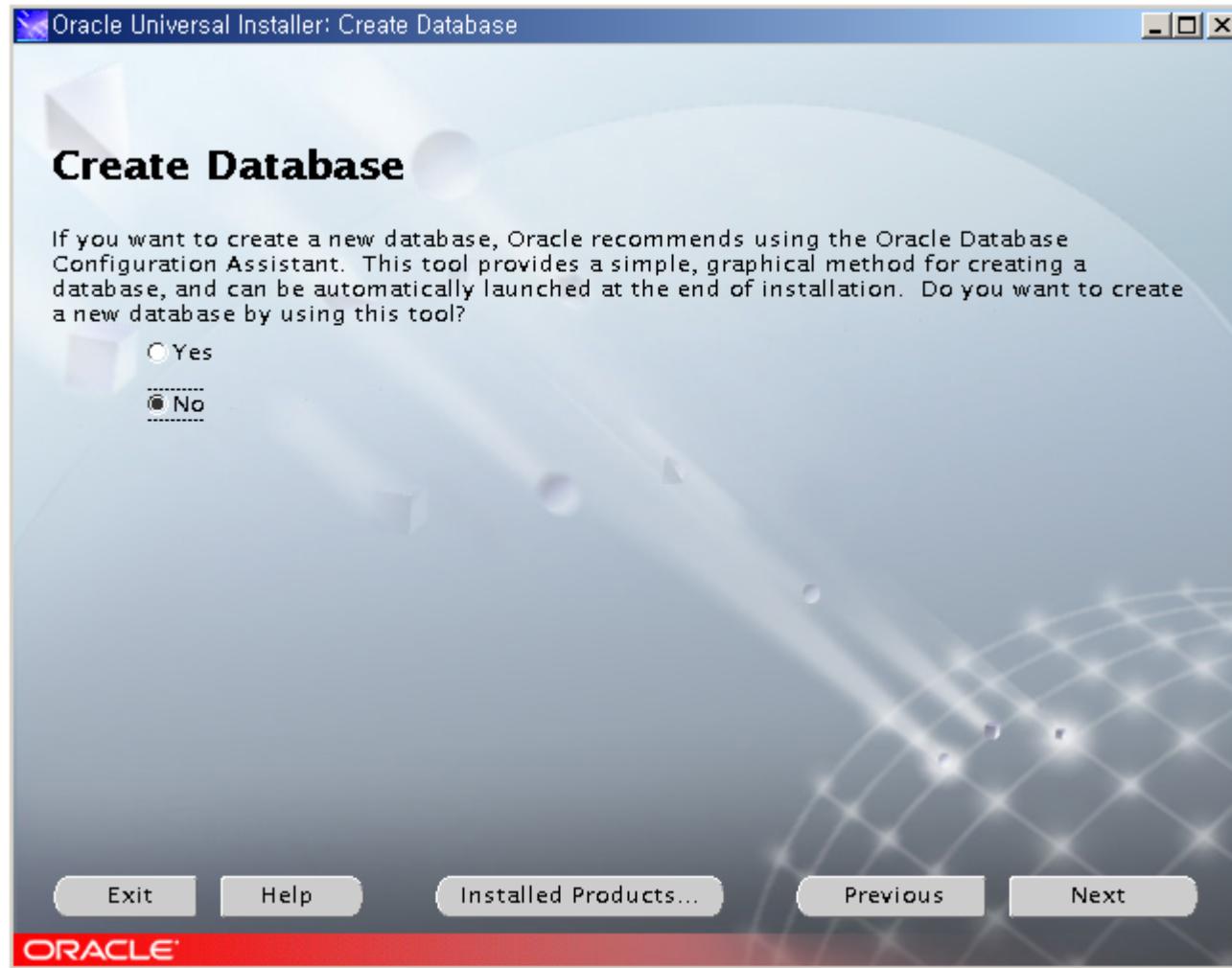




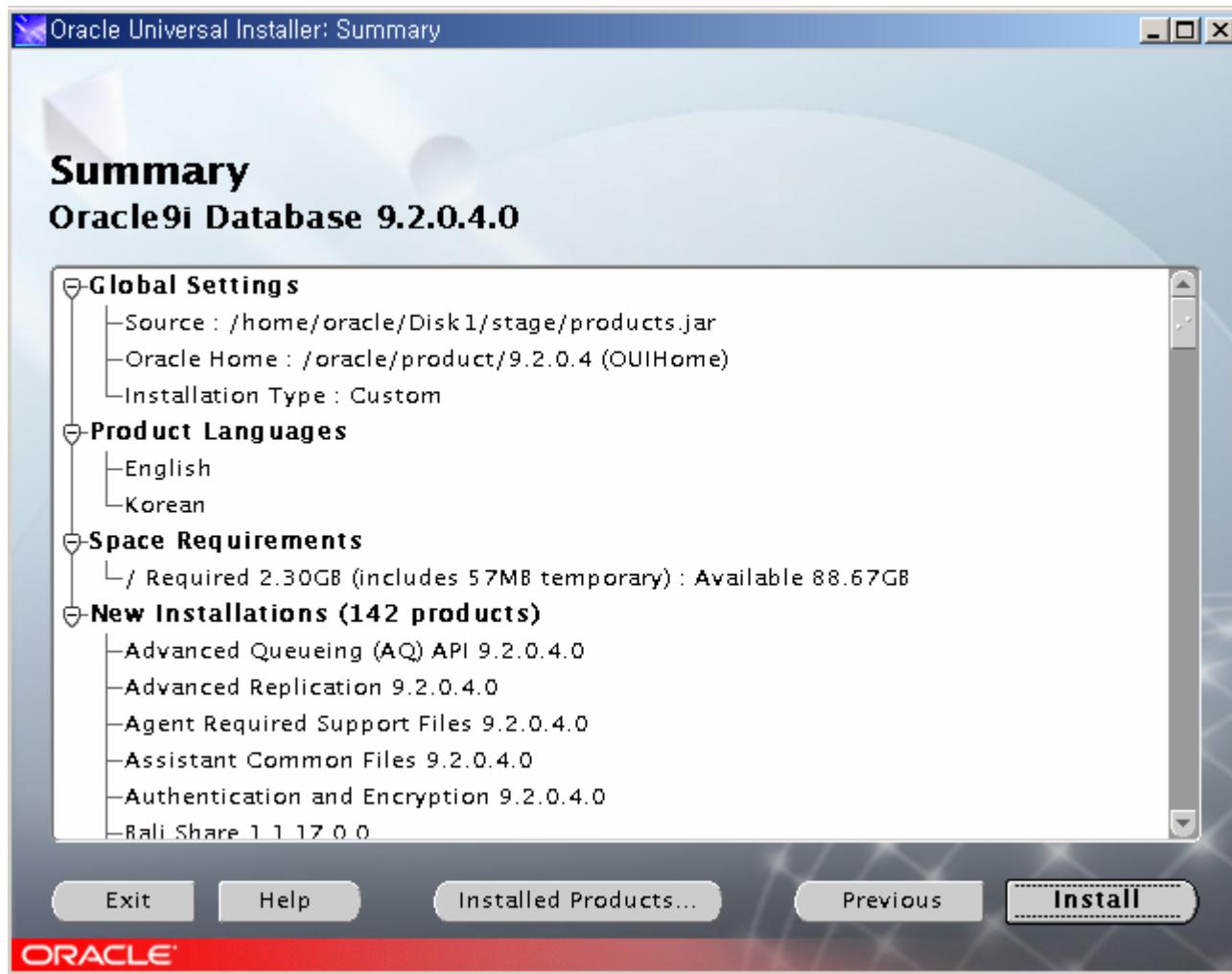
Next



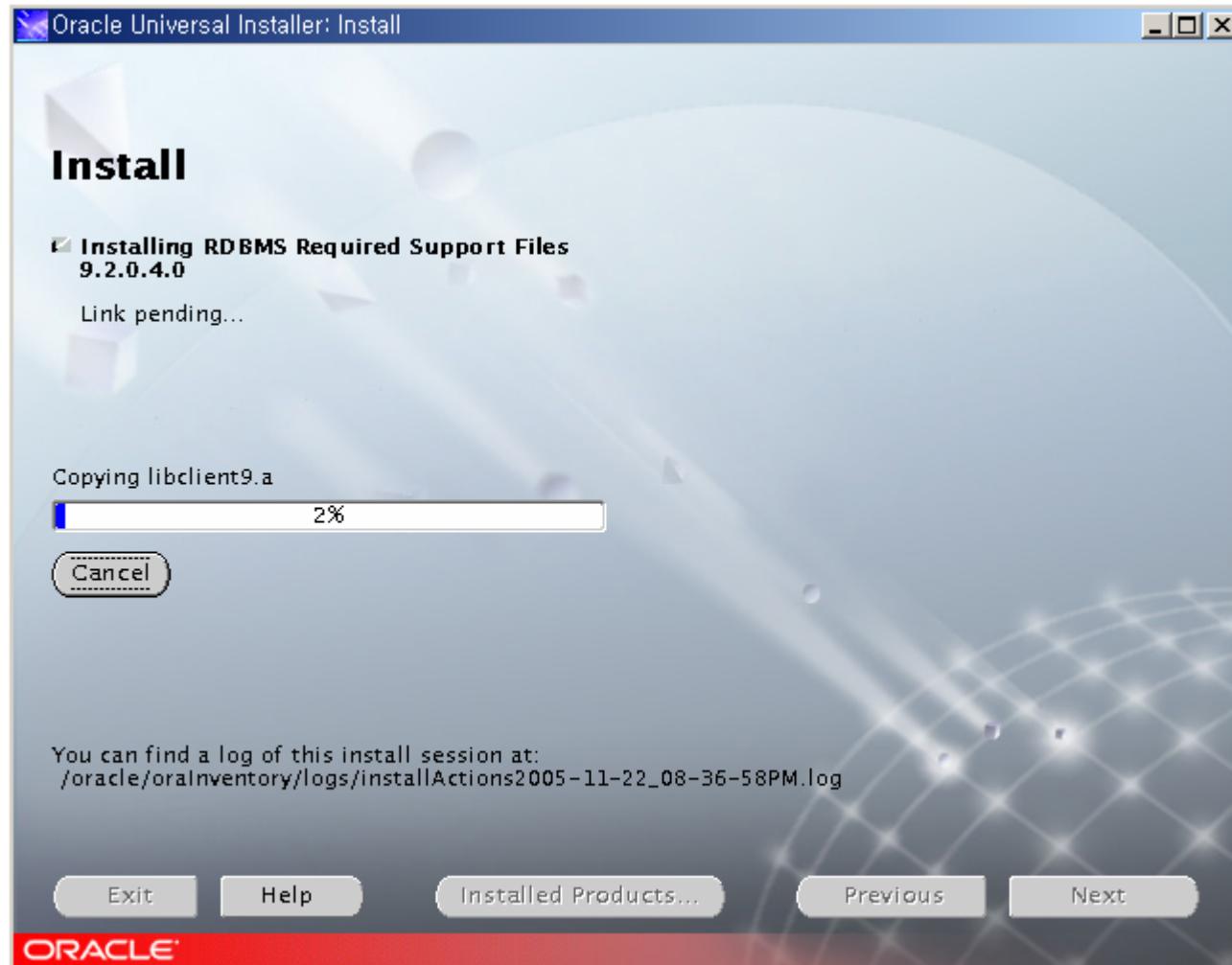
Group      Next

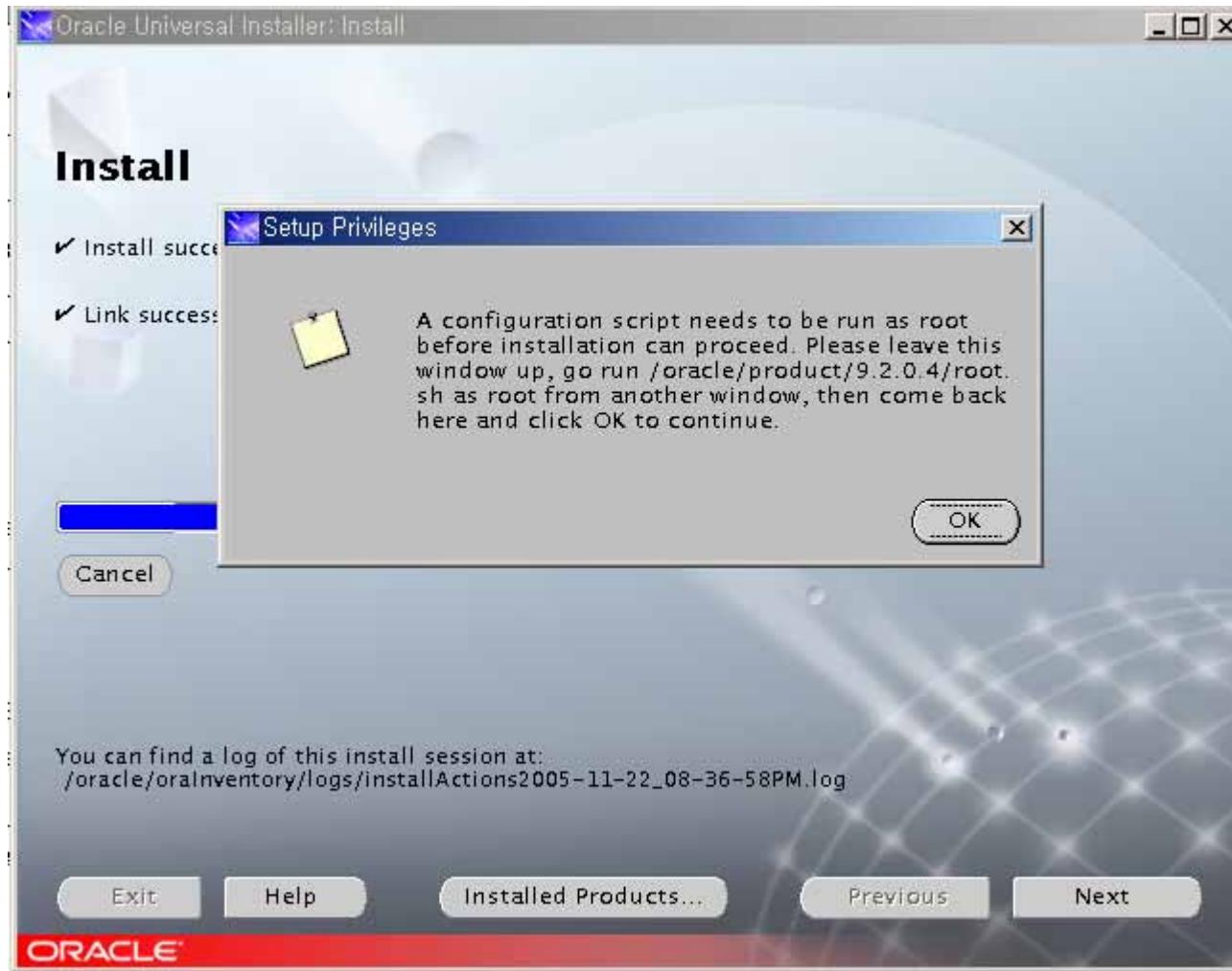


No      Next



Install



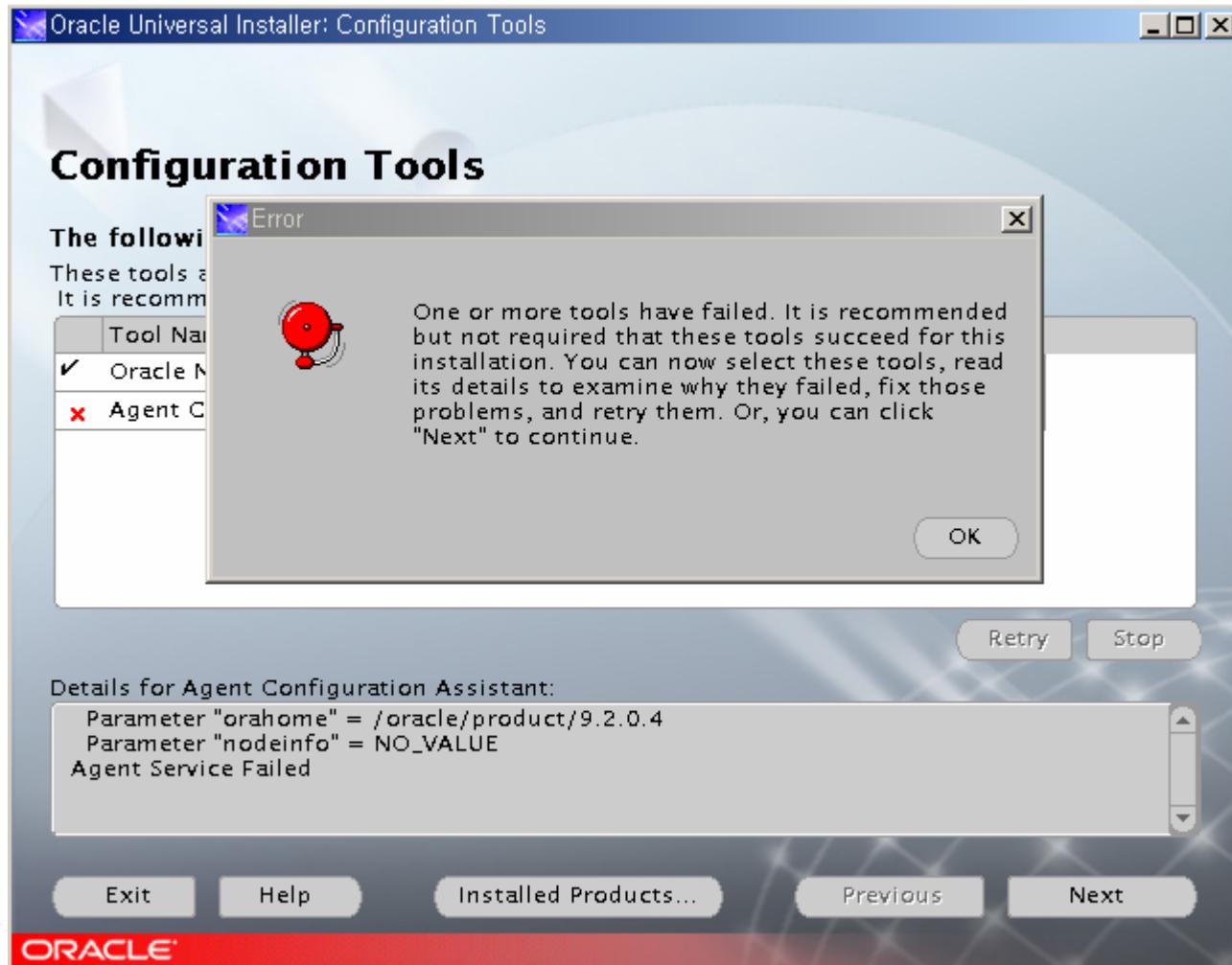


root.sh      Ok      Next

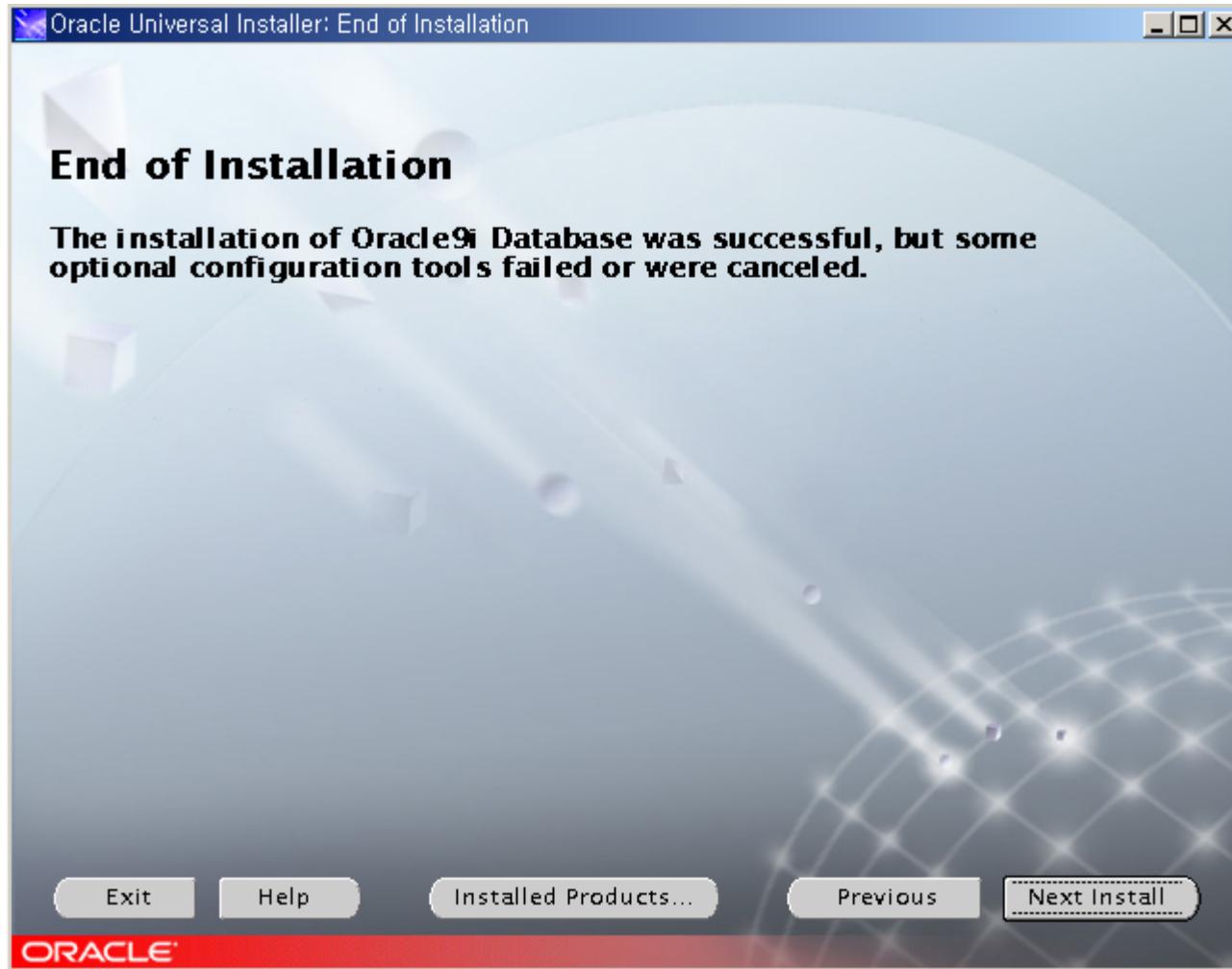


Check box

Next



OK      Next      ( agent      oem      .      )



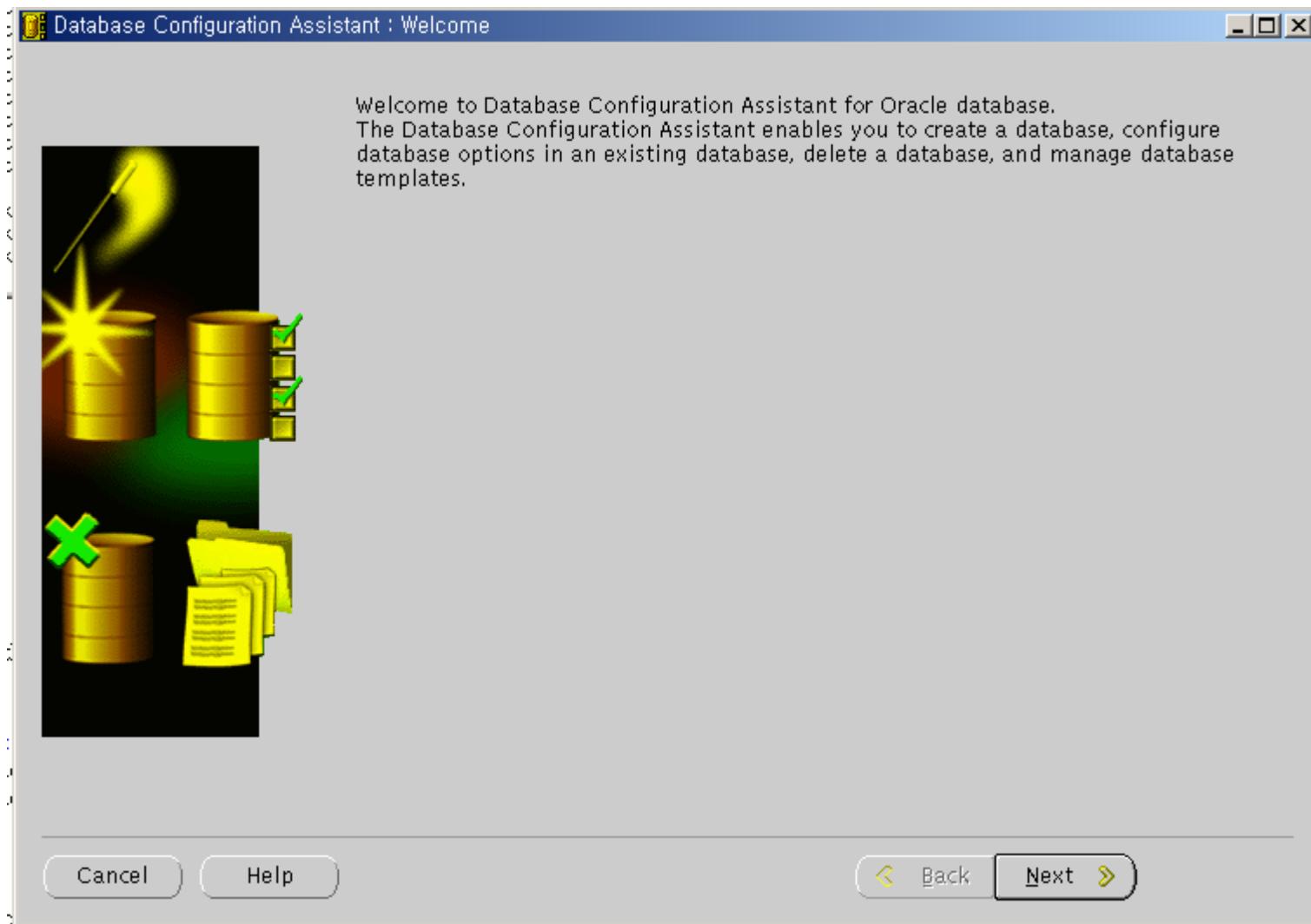
Exit

Install

## **DB**

---

```
[oracle@soma]# dbca
```



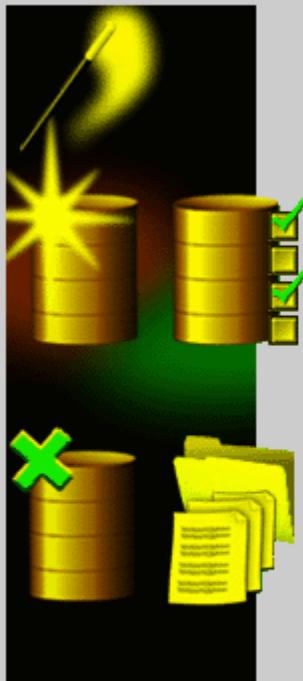
**Next**

# Database Configuration Assistant, Step 1 of 8 : Operations



Select the operation you want to perform

- Create a database
- Configure database options in a database
- Delete a database
- Manage Templates



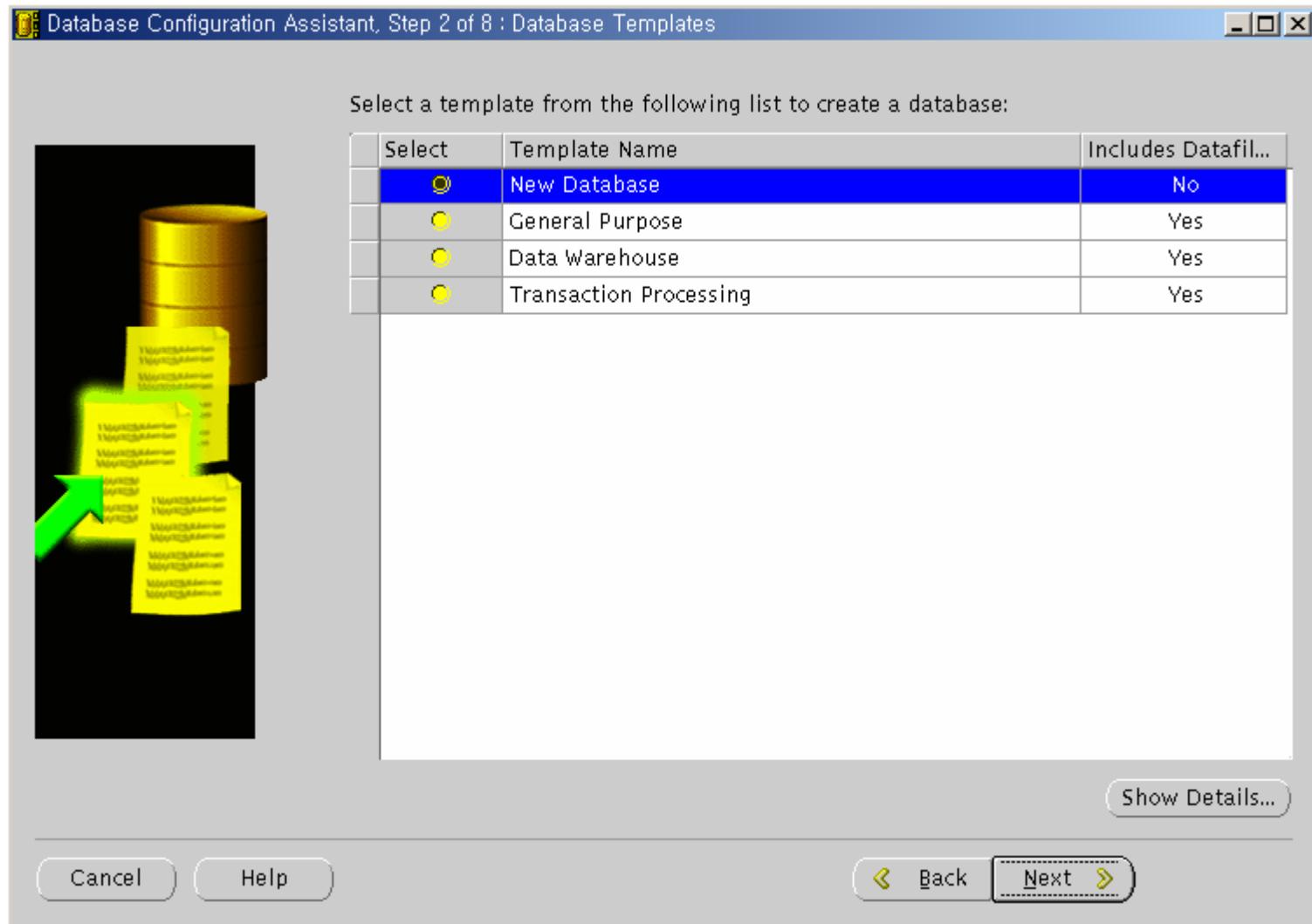
Cancel

Help

Back Next

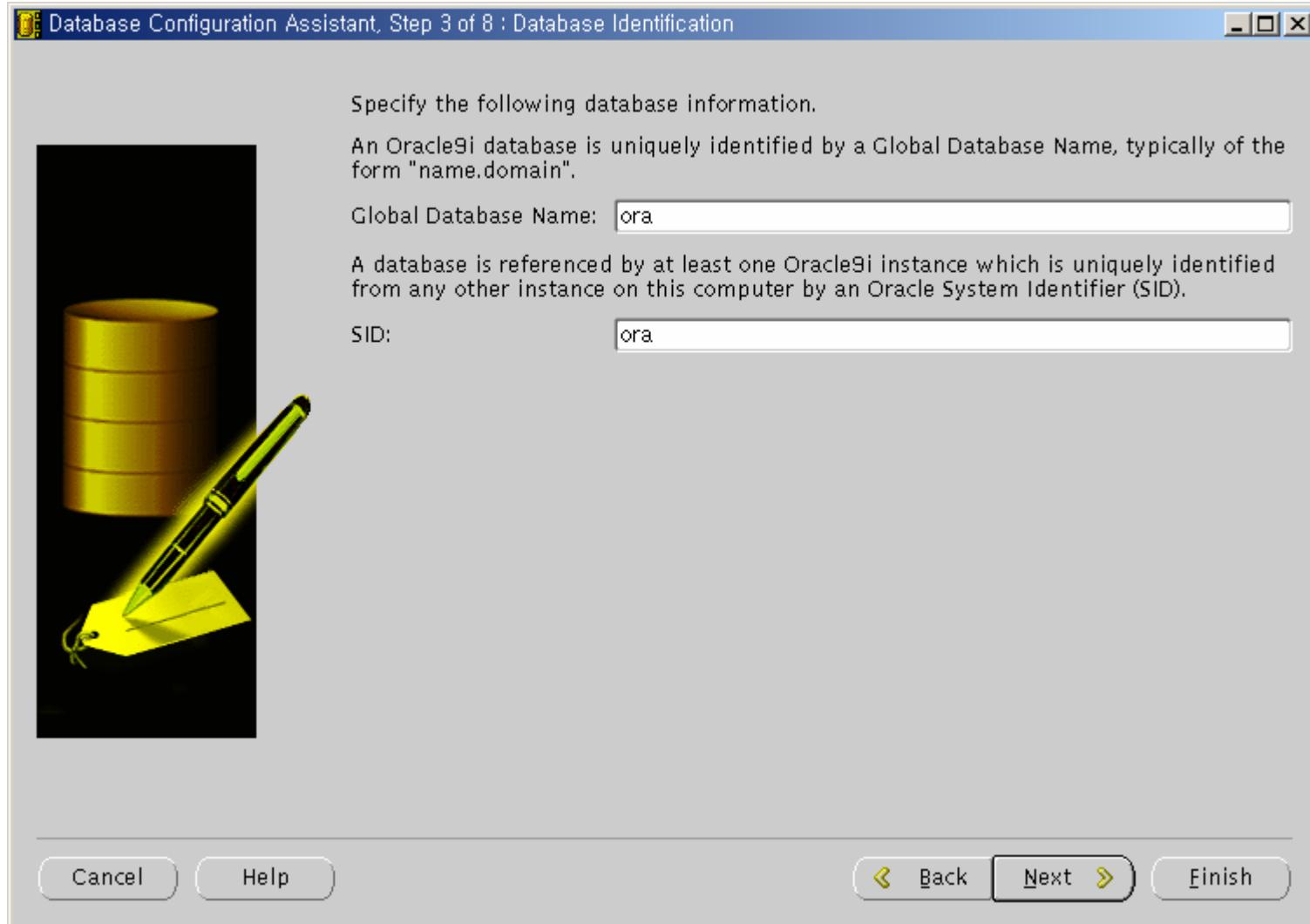
Create a database

Next

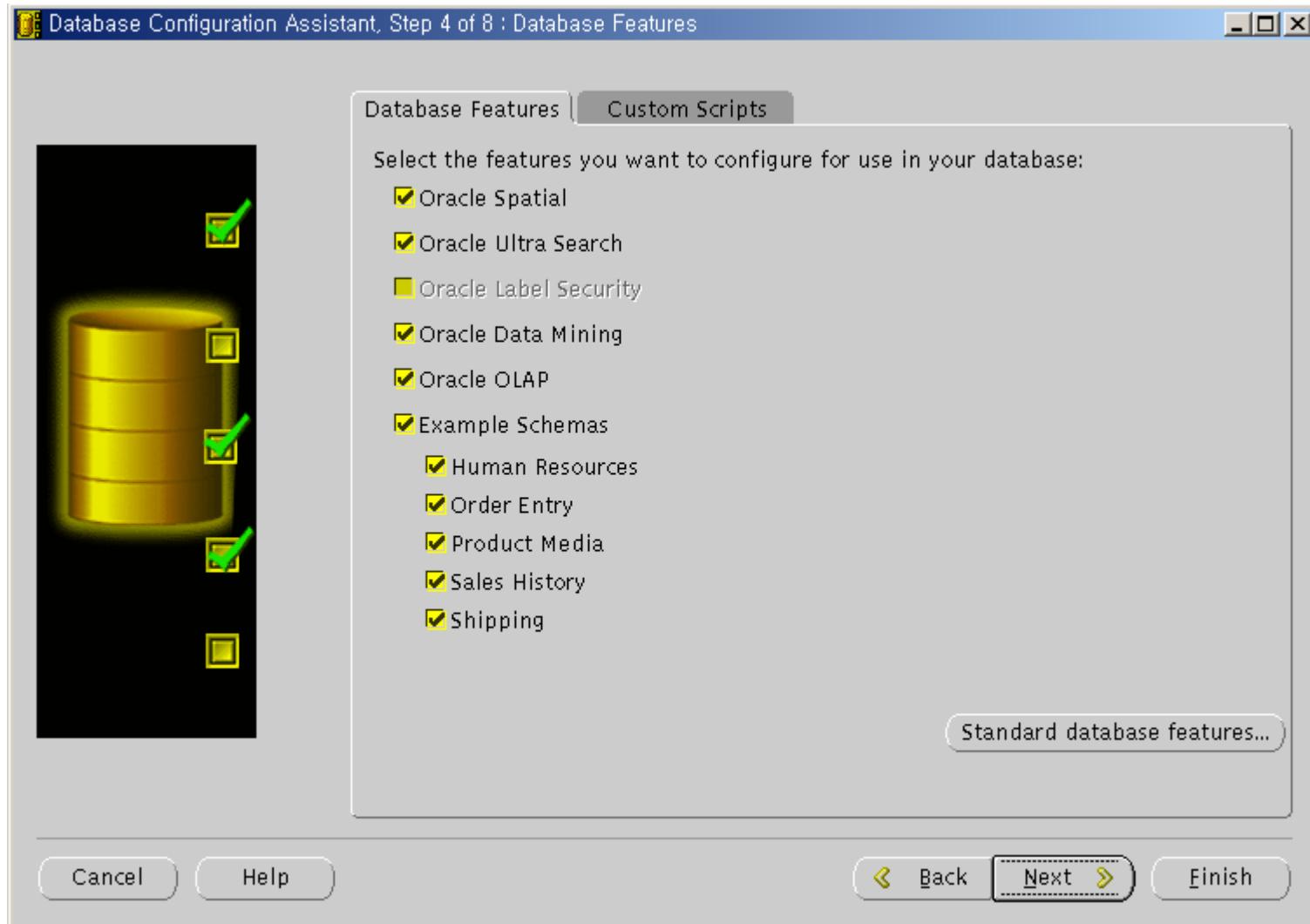


New Database

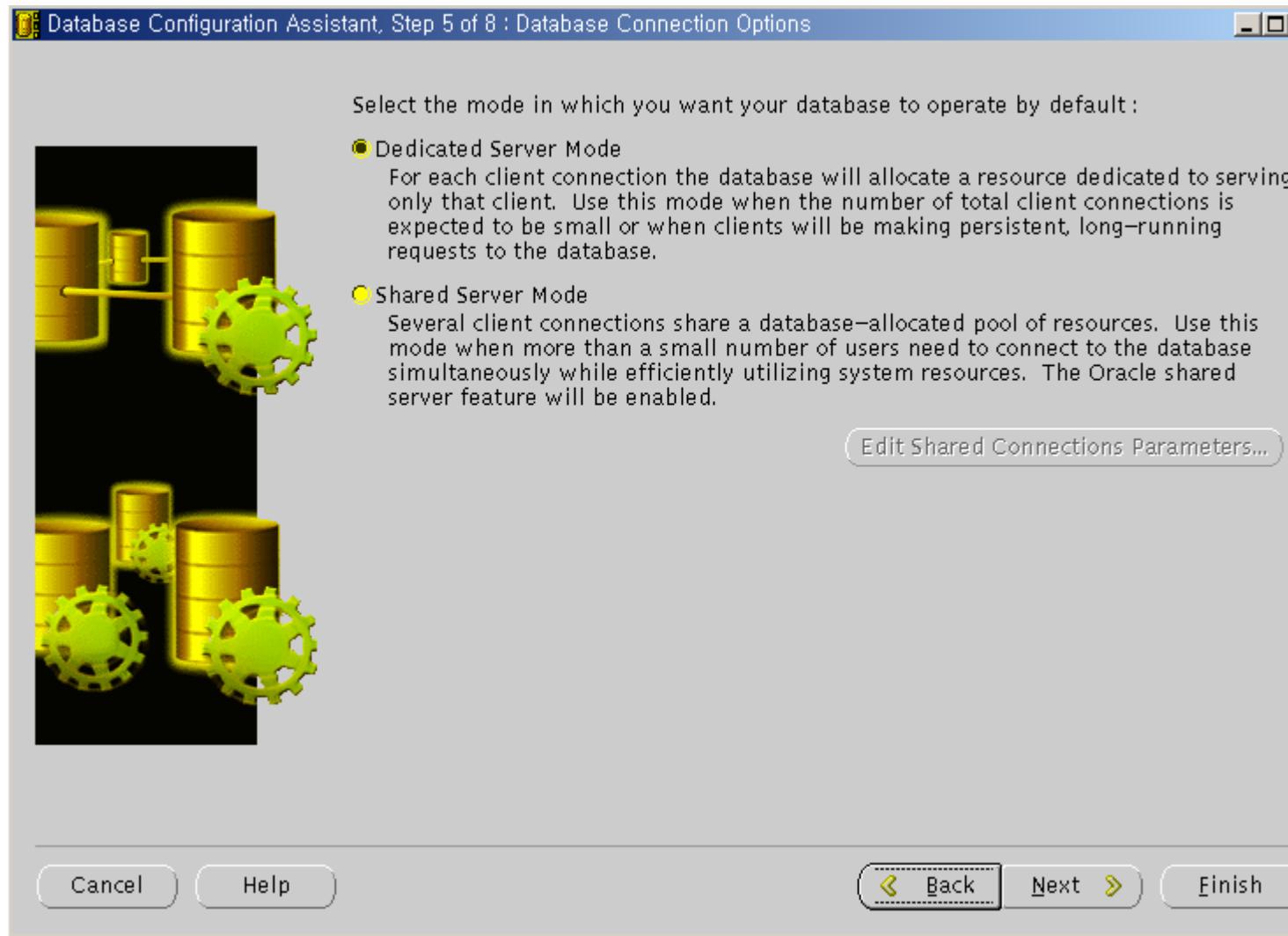
Next



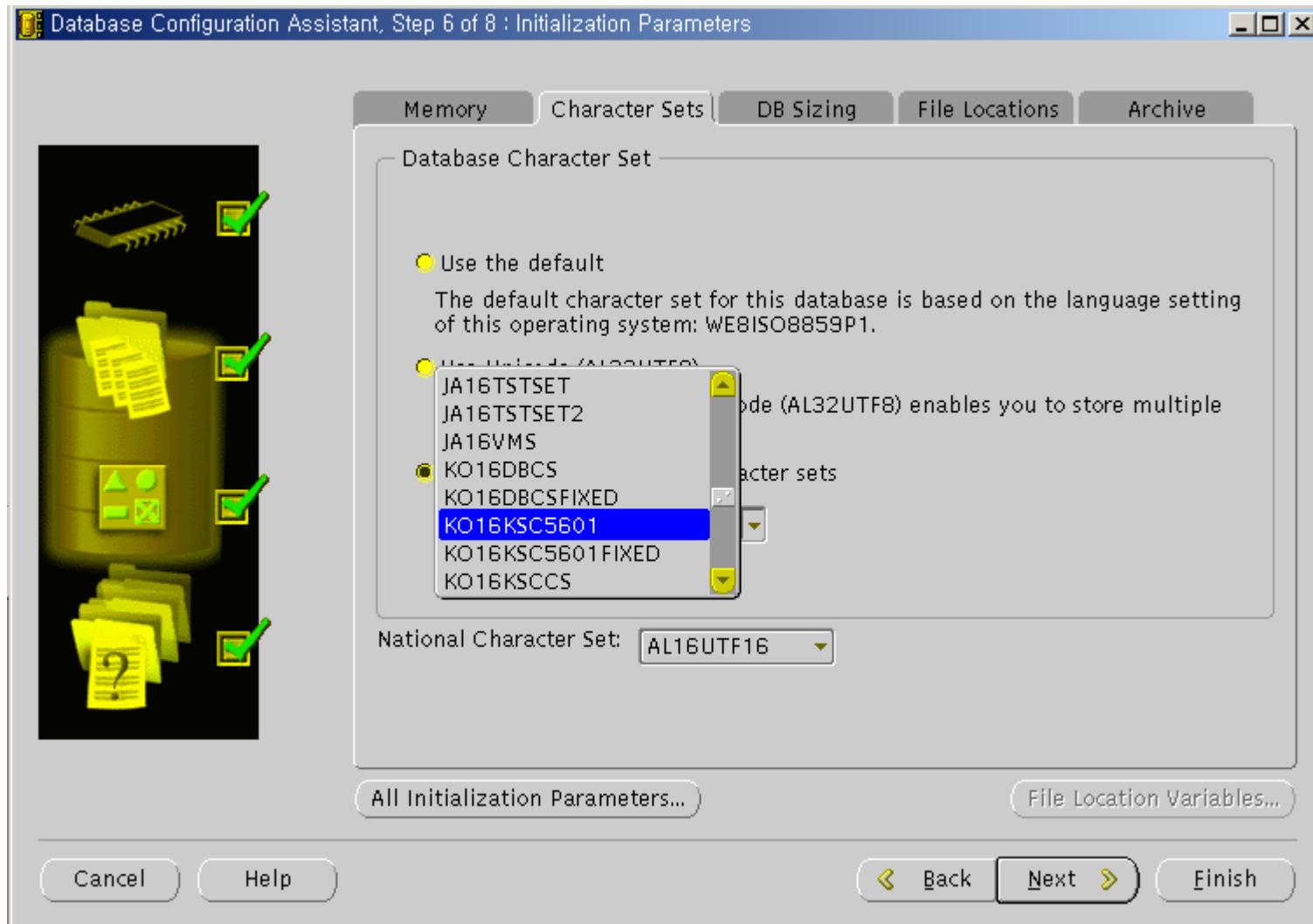
DBname,SID      [Next](#)



Next



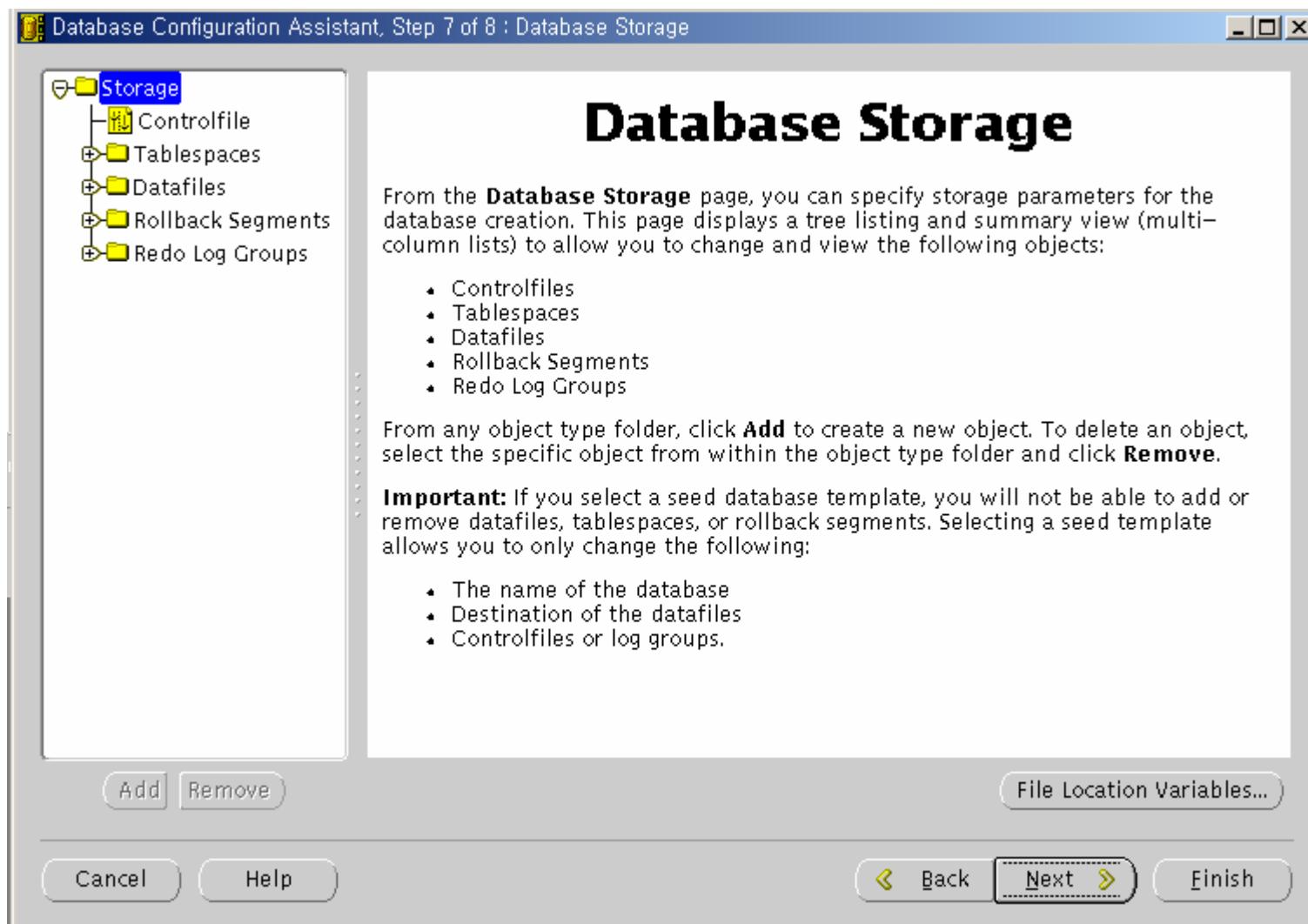
Mode      Next



Character Sets

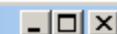
K016KSC5601

Next



Next

Database Configuration Assistant, Step 8 of 8 : Creation Options



Select the following database creation options:

Create Database

Save as a Database Template

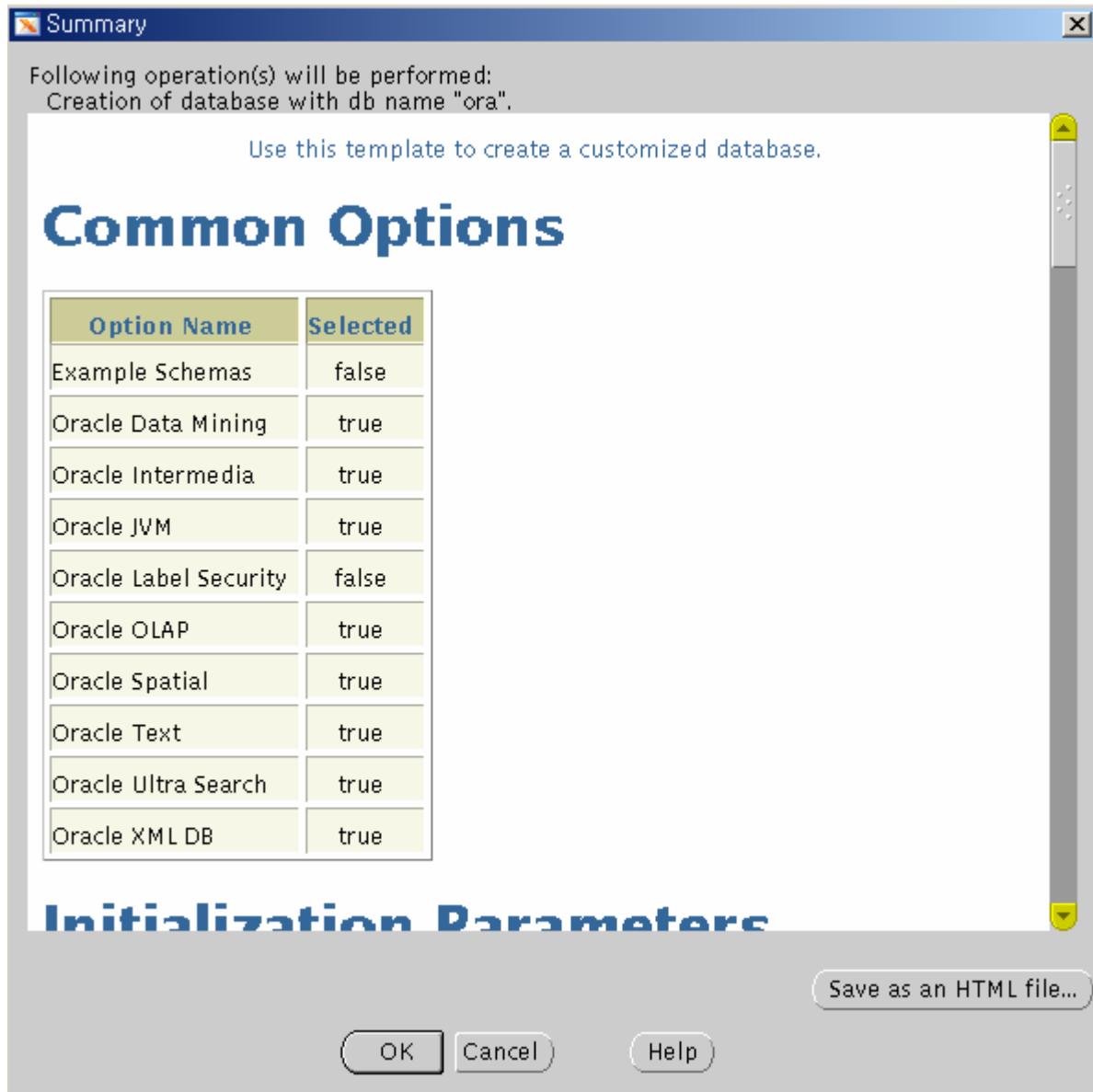
Name:

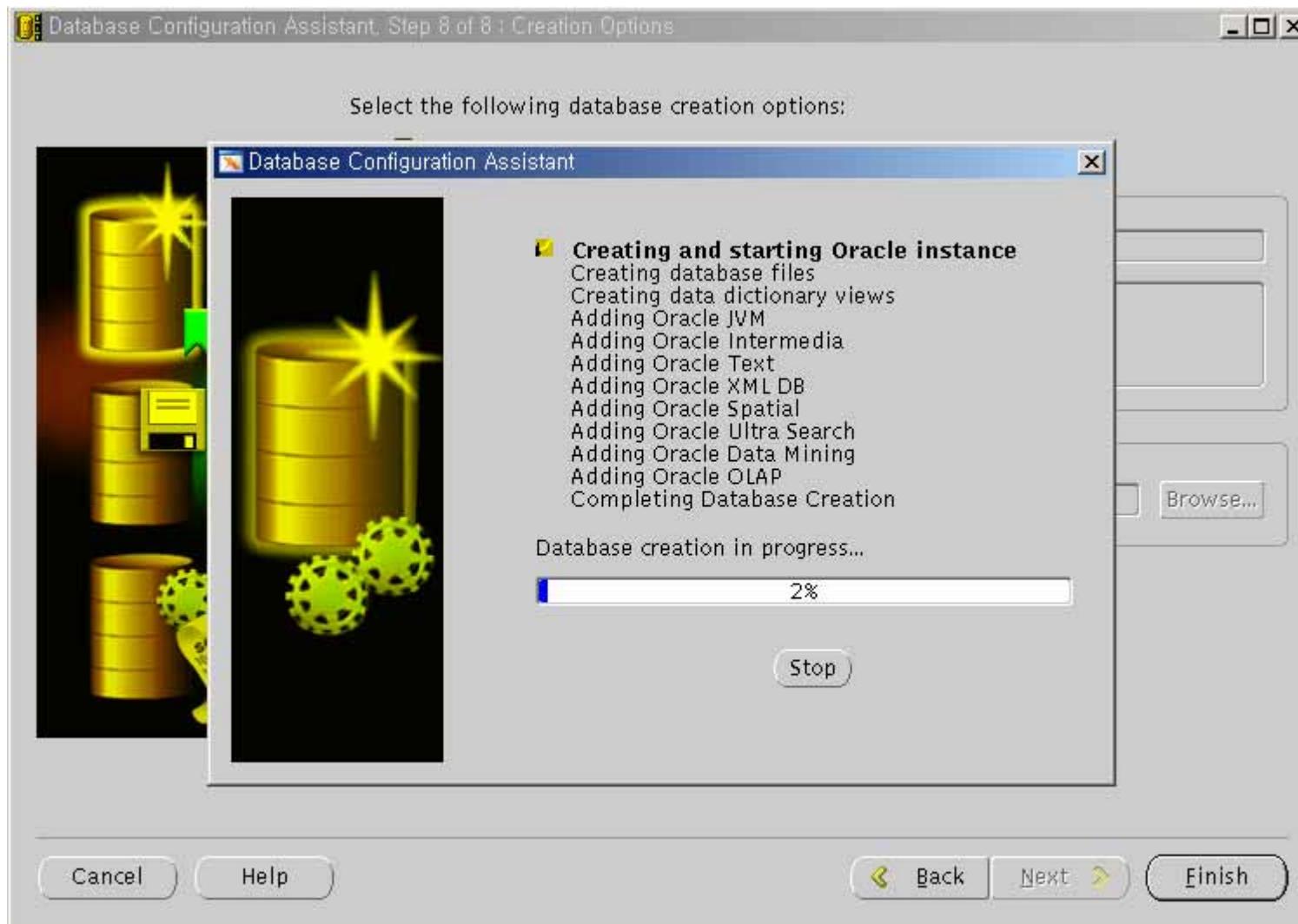
Description:

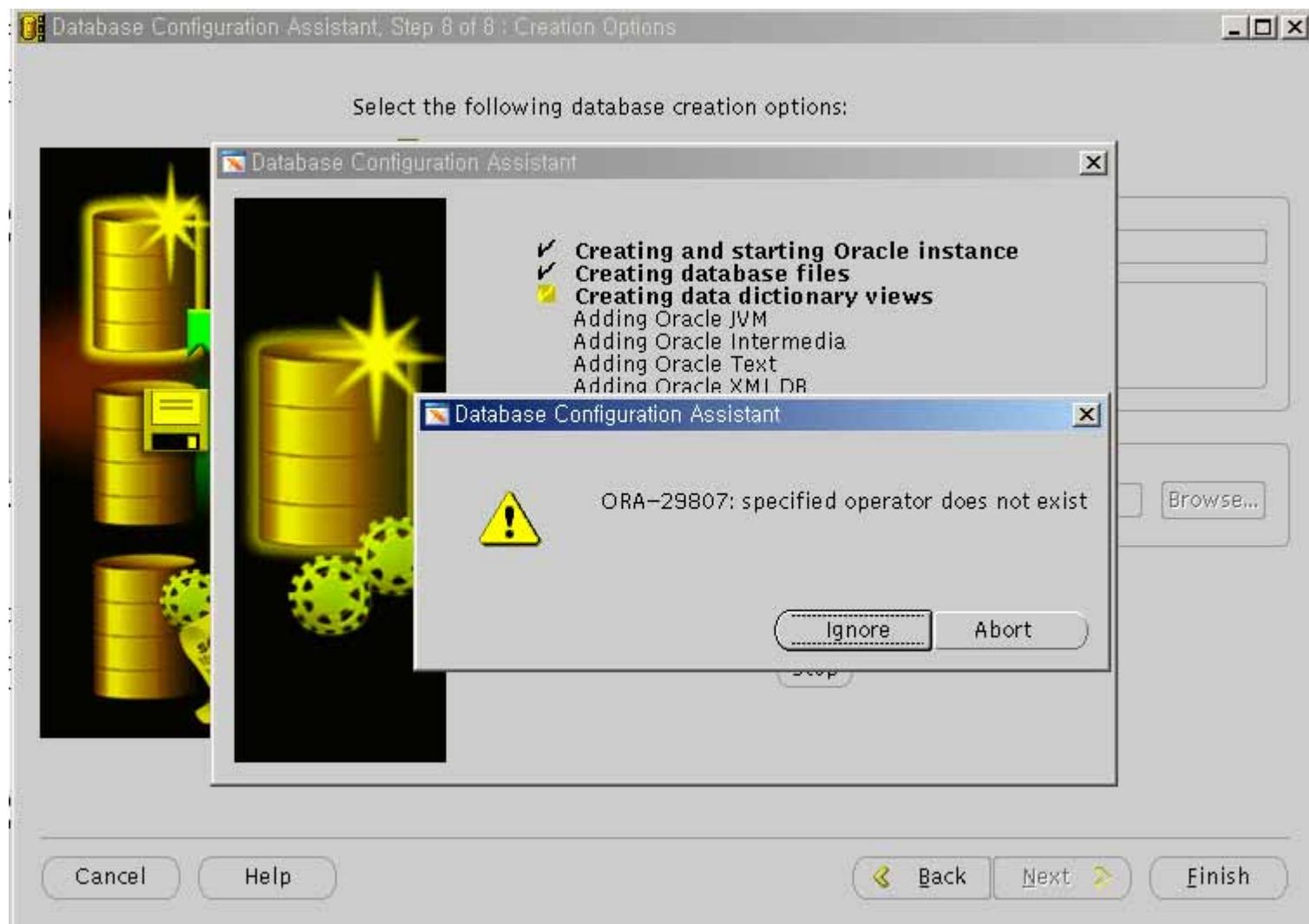
Generate Database Creation Scripts

Destination  
Directory:

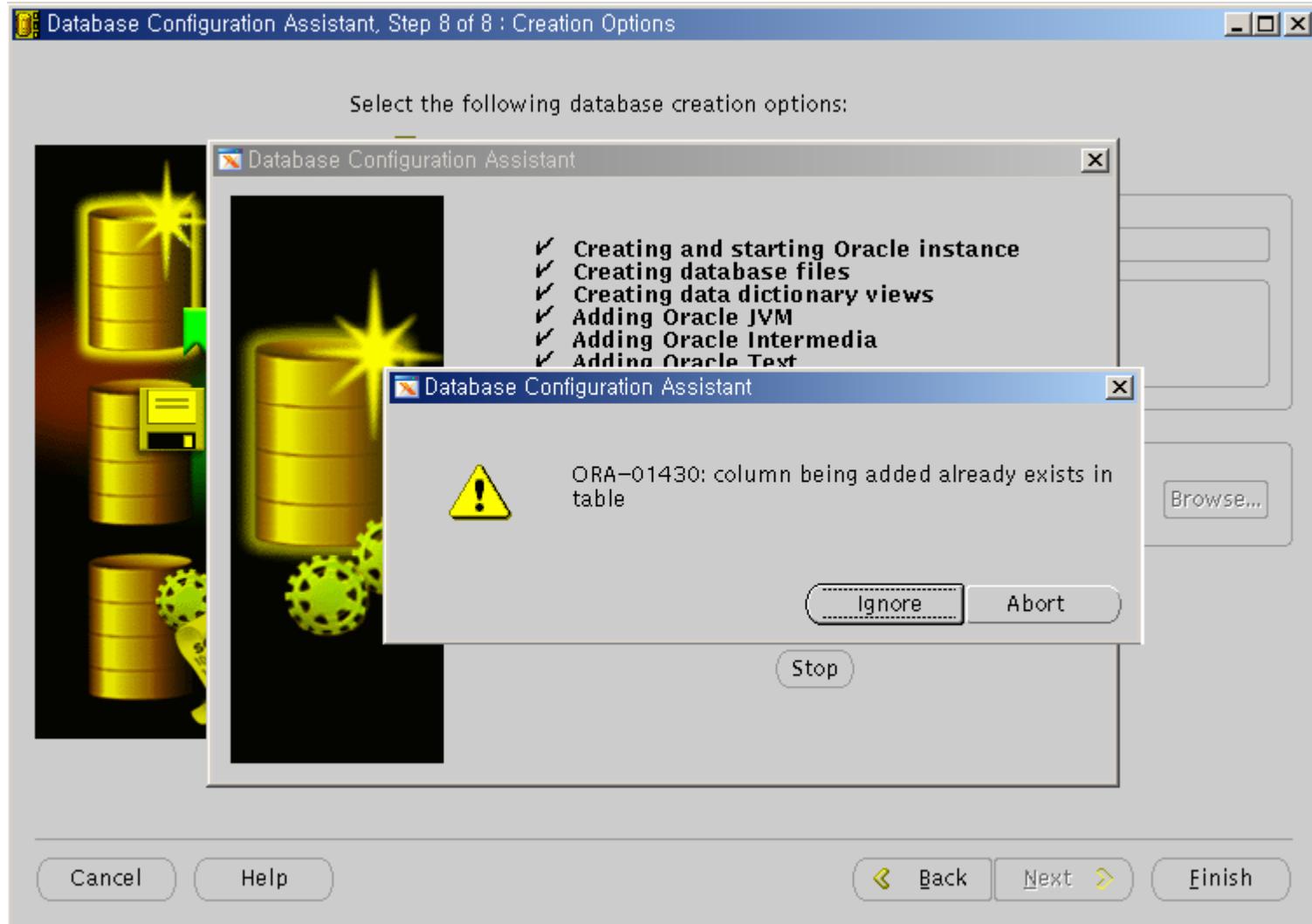




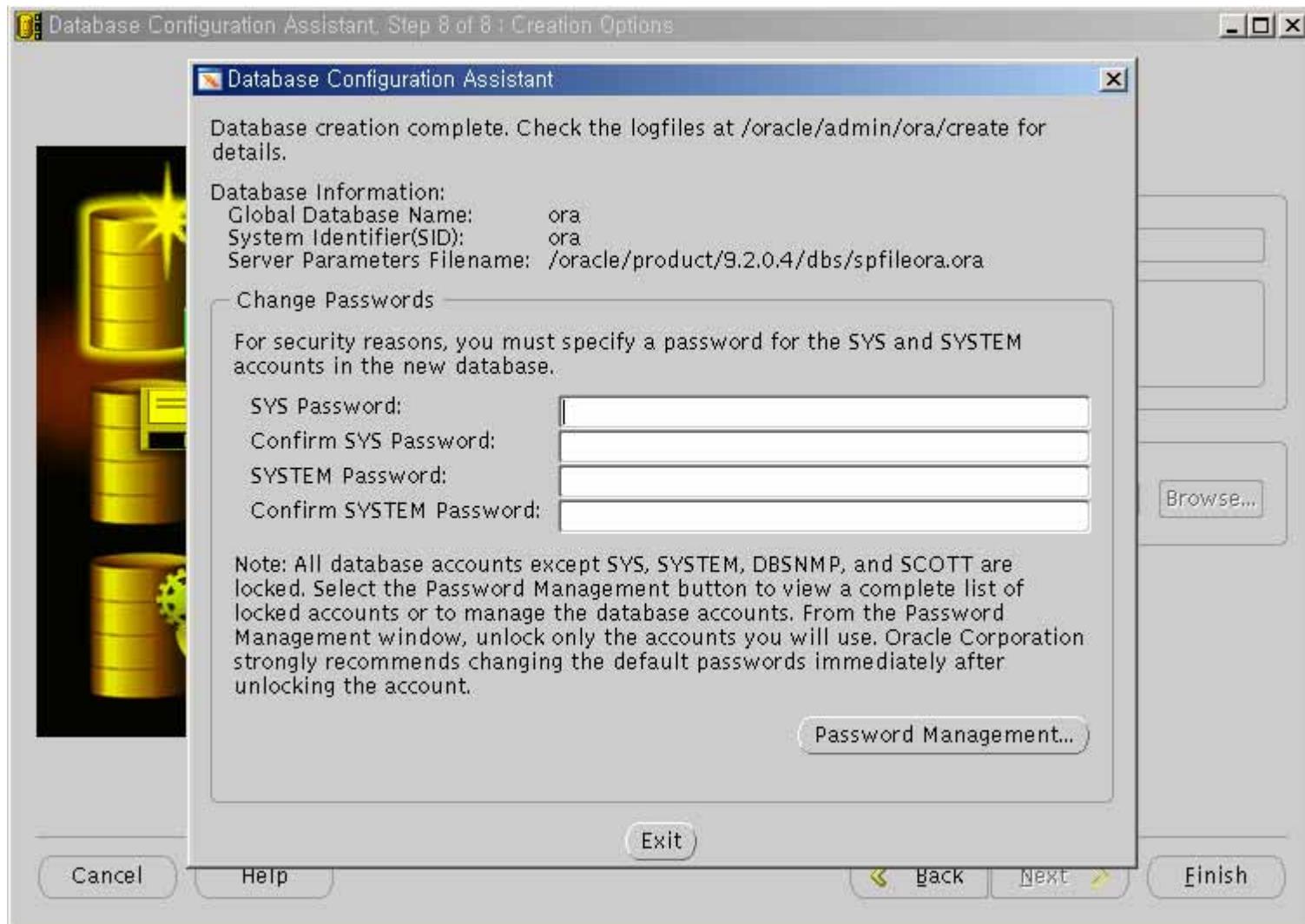




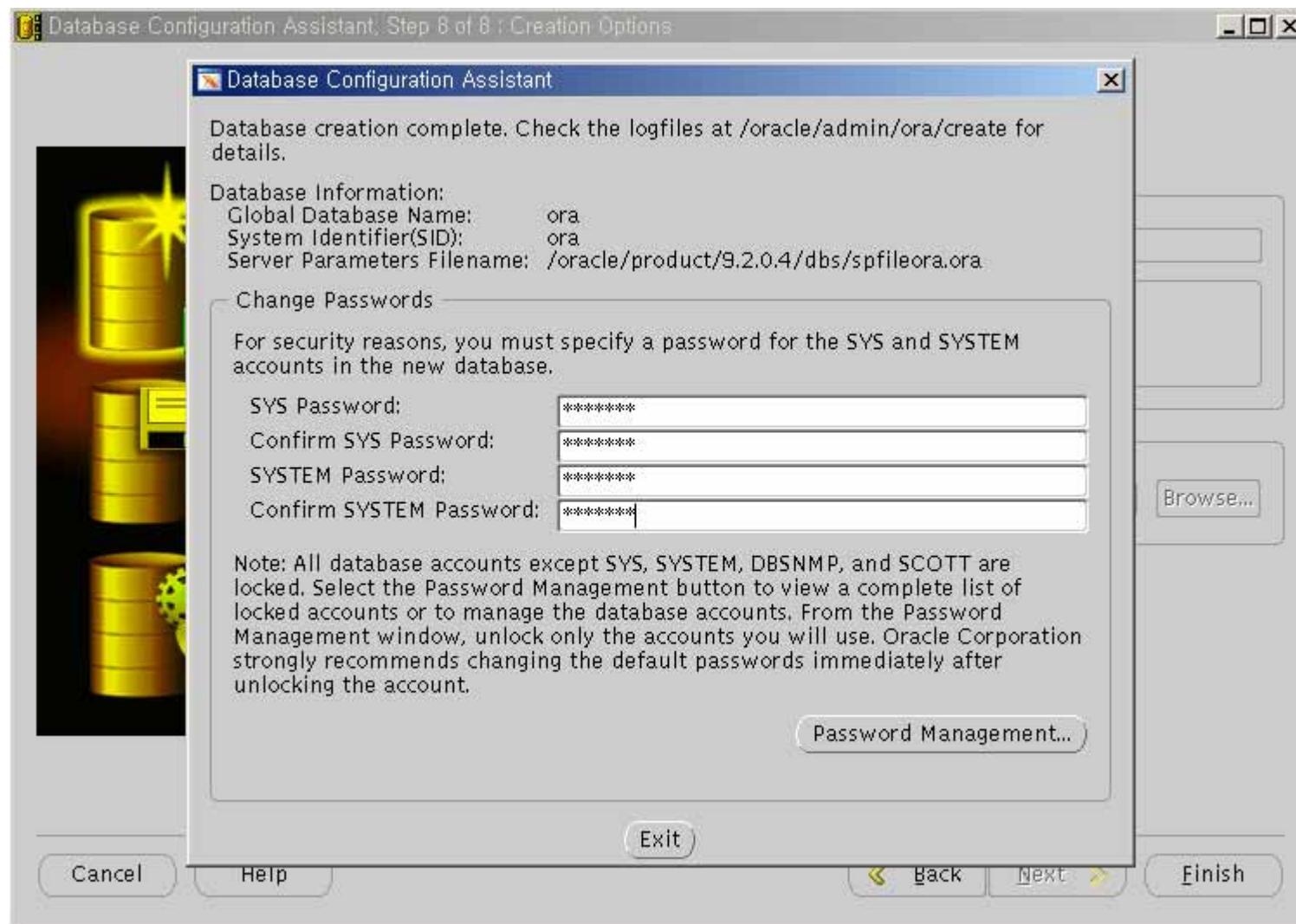
Ignore ( )



Ignore ( )



Sys,system



Sys,system

Exit

DB

!!

## Ignore

- ORA-29807

```
"          "          ORA-29807      가  
drop operator XMLSequence  
*  
ERROR at line 1:  
ORA-29807: specified operator does not exist
```

(Bug: 2686156)

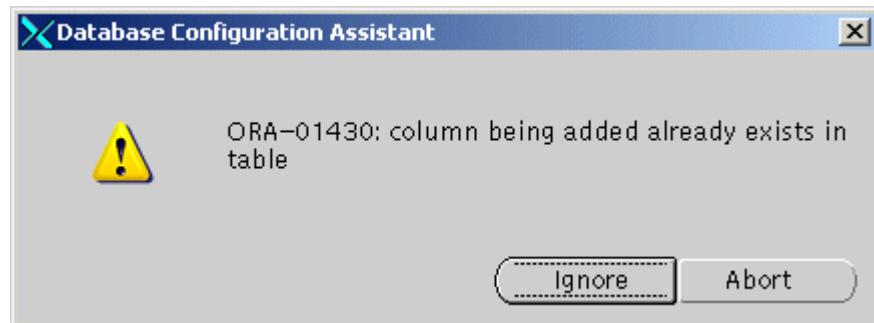
"Ignore"



- ORA-01430

```
"Oracle Spatial      가"          ORA-01430      가  
(SDO_ROOT_MBR mdsys.sdo_geometry)  
*  
ERROR at line 2:  
ORA-01430: column being added already exists in table
```

"Ignore"



## Agentctl start

When you run "agentctl start" (Oracle 9.2.0.4), dbsnmp will crash:

```
$ su - oracle  
$ agentctl start
```

DBSNMP for Linux: Version 9.2.0.4.0 - Production on 07-JAN-2004 19:11:14

Copyright (c) 2003 Oracle Corporation. All rights reserved.

```
Starting Oracle Intelligent Agent.../u01/app/oracle/product/9.2.0/bin/dbsnmpwd: line 156: 1855 Segmentation fault      nohup $ORACLE_HOME/bin/dbsnmp  
$*  
>>$DBSNMP_WDLOGFILE 2>&1  
/u01/app/oracle/product/9.2.0/bin/dbsnmpwd: line 156: 1868 Segmentation fault      nohup $ORACLE_HOME/bin/dbsnmp $* >>$DBSNMP_WDLOGFILE 2>&1
```

```
/u01/app/oracle/product/9.2.0/bin/dbsnmpwd: line 156: 1880 Segmentation fault      nohup $ORACLE_HOME/bin/dbsnmp $* >>$DBSNMP_WDLOGFILE 2>&1  
/u01/app/oracle/product/9.2.0/bin/dbsnmpwd: line 156: 1892 Segmentation fault      nohup $ORACLE_HOME/bin/dbsnmp $* >>$DBSNMP_WDLOGFILE 2>&1
```

To resolve this problem, apply the patch p3238244\_9204\_LINUX.zip from <http://metalink.oracle.com>. See bug/patch 3238244 for more information.

*Before you apply the patch, make sure the instance is down!*

Also make sure the opatch script appears in your \$PATH. See "[Patching Oracle9iR2 on Red Hat AS 3](#)" for information on getting and installing opatch. To verify if opatch is in your \$PATH, run the which command:

```
$ su - oracle  
$ which opatch  
/tmp/OPatch/opatch  
$
```

To apply now the patch, run:

```
$ su - oracle  
$ unzip p3238244_9204_LINUX.zip  
$ cd 3238244  
$ export PATH=$PATH:/sbin      # the patch needs "fuser" which is located in /sbin  
$ opatch apply
```

Now you need to relink dbsnmp. This is the binary that crashed when running agentctl start. To find which makefile handles the linking of dbsnmp, you can run:

```
$ su - oracle  
$ find $ORACLE_HOME -name "*.mk" | xargs grep -l dbsnmp  
/u01/app/oracle/product/9.2.0/network/lib/ins_oemagent.mk  
/u01/app/oracle/product/9.2.0/network/lib/env_oemagent.mk
```

```
$
```

I relinked dbsnmp and all associated executables which are maintained by the ins\_oemagent.mk makefile:

```
$ su - oracle  
$ cd $ORACLE_HOME/network/lib  
$ make -f ins_oemagent.mk install
```

Now you should be able to start the agent:

```
$ su - oracle  
$ agentctl start
```

NOTE: Don't forget to undo the changes (links) to /usr/bin/gcc and /usr/bin/g++ if you don't need it any more. Also don't forget the /etc/ld.so.preload file.