

Upgrading Your Oracle9 *i* Database to Oracle Database 10g

Purpose

This module describes how to upgrade your Oracle9i Database to Oracle Database 10g using the Database Upgrade Assistant.

Topics

This lesson will discuss the following:

- [Overview](#)
- [Prerequisites](#)
- [Verifying SYSTEM Tablespace](#)
- [Upgrading your Database using the Database Upgrade Assistant](#)

Overview

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Using the Database Upgrade Assistant, you will upgrade your Oracle9i Database to Oracle Database 10g.

Prerequisites

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In order for this lesson to work successfully, you will need to have performed the following:

1. Completed the [Configuring Linux for the Installation of Oracle Database 10g](#) lesson
2. Completed the [Installing the Oracle Database 10g on Linux](#) lesson
3. Completed the [Installing the Oracle9i Database Release 2 on Linux](#) lesson or have access to an Oracle9i Database.

Verifying SYSTEM Tablespace

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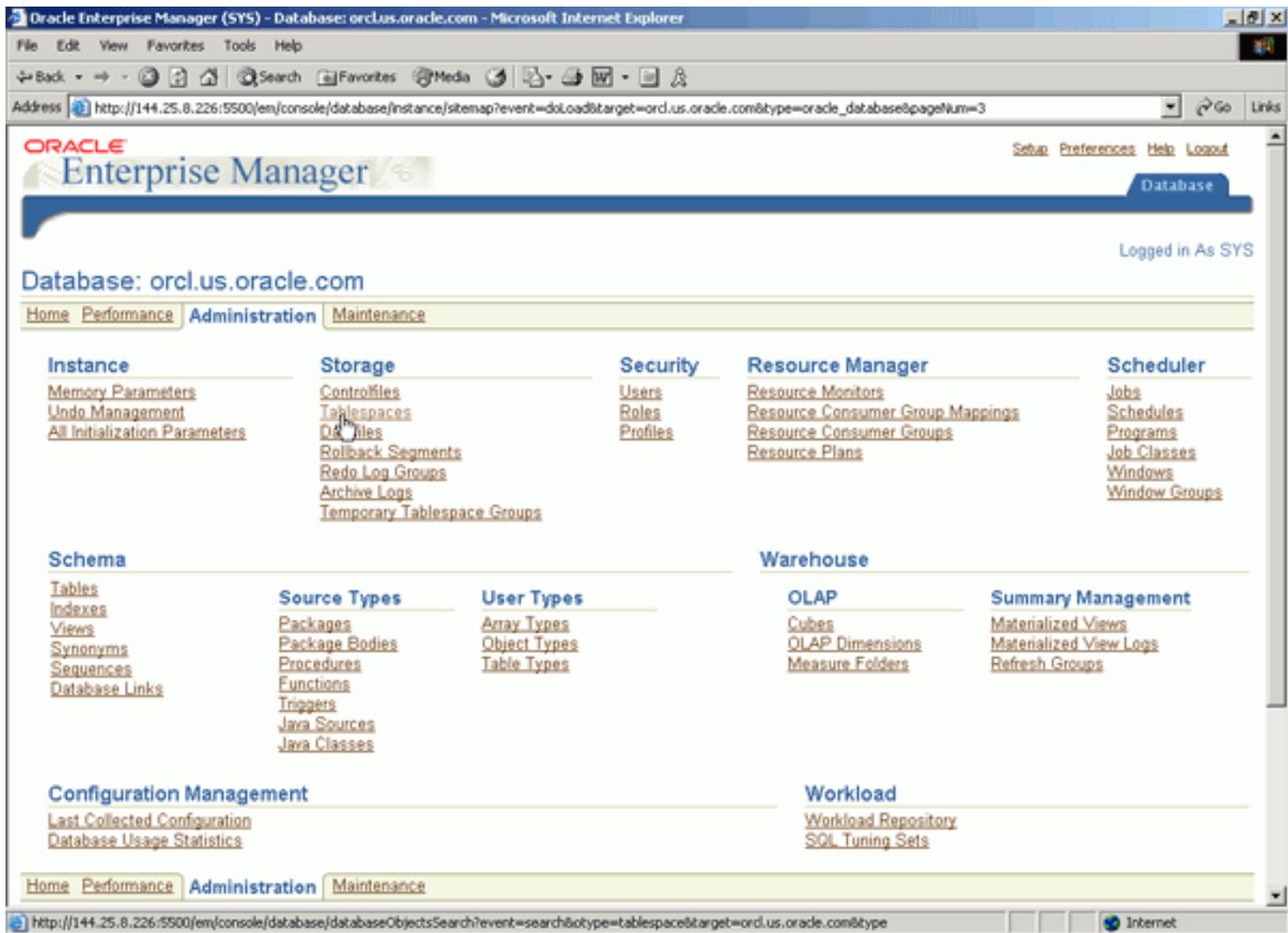
Before you upgrade, you want to check to make sure you have enough space in your SYSTEM Tablespace. Perform the following:

1. Open your browser and enter the following URL:

http://<hostname>:5500/em

Login as **sys/<password>** as **sysdba** and click **Login** .

2. Click the **Administration** tab.
3. Under Storage select the **Tablespaces** link

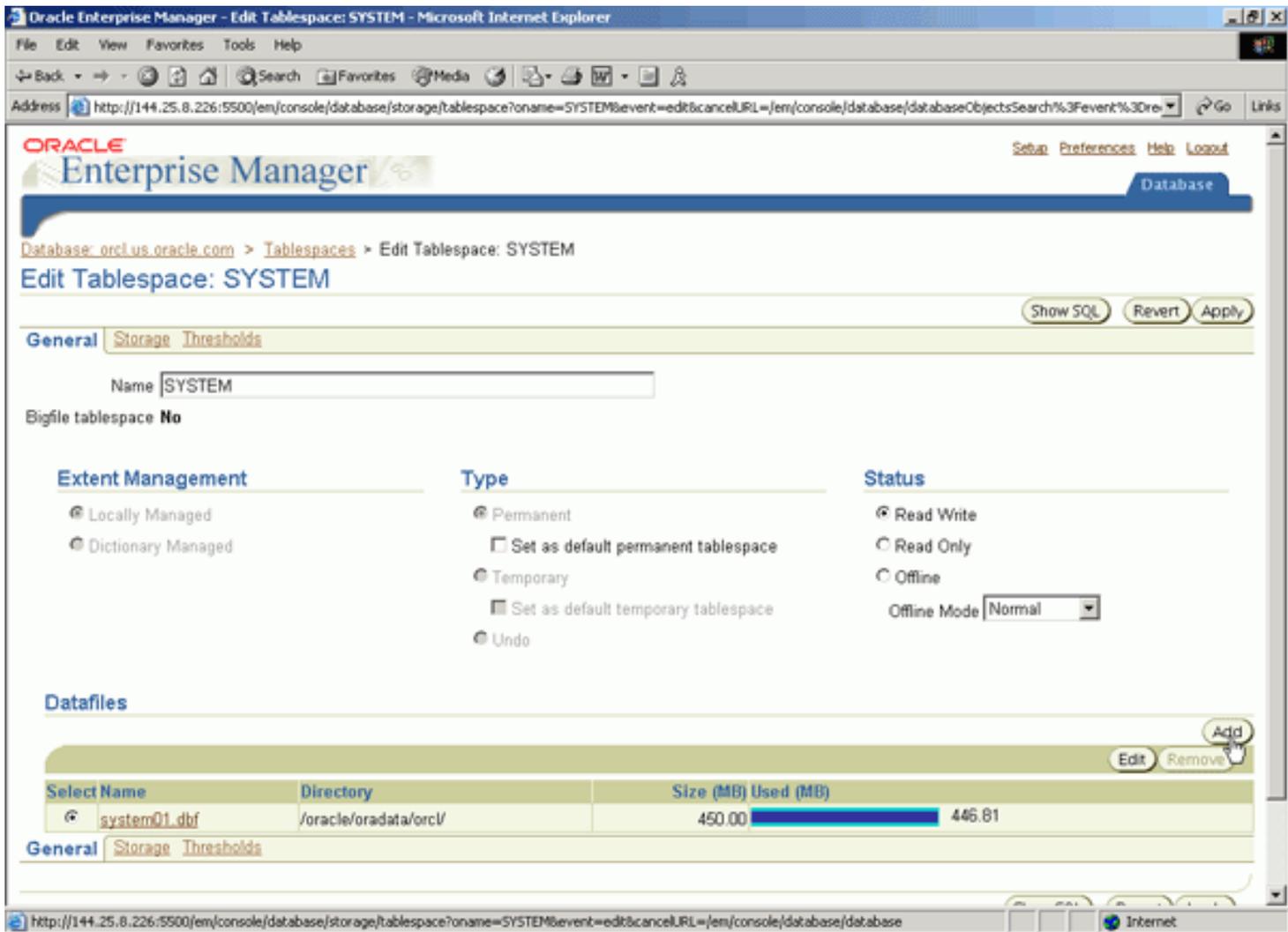


4. Select the Tablespace **SYSTEM** .

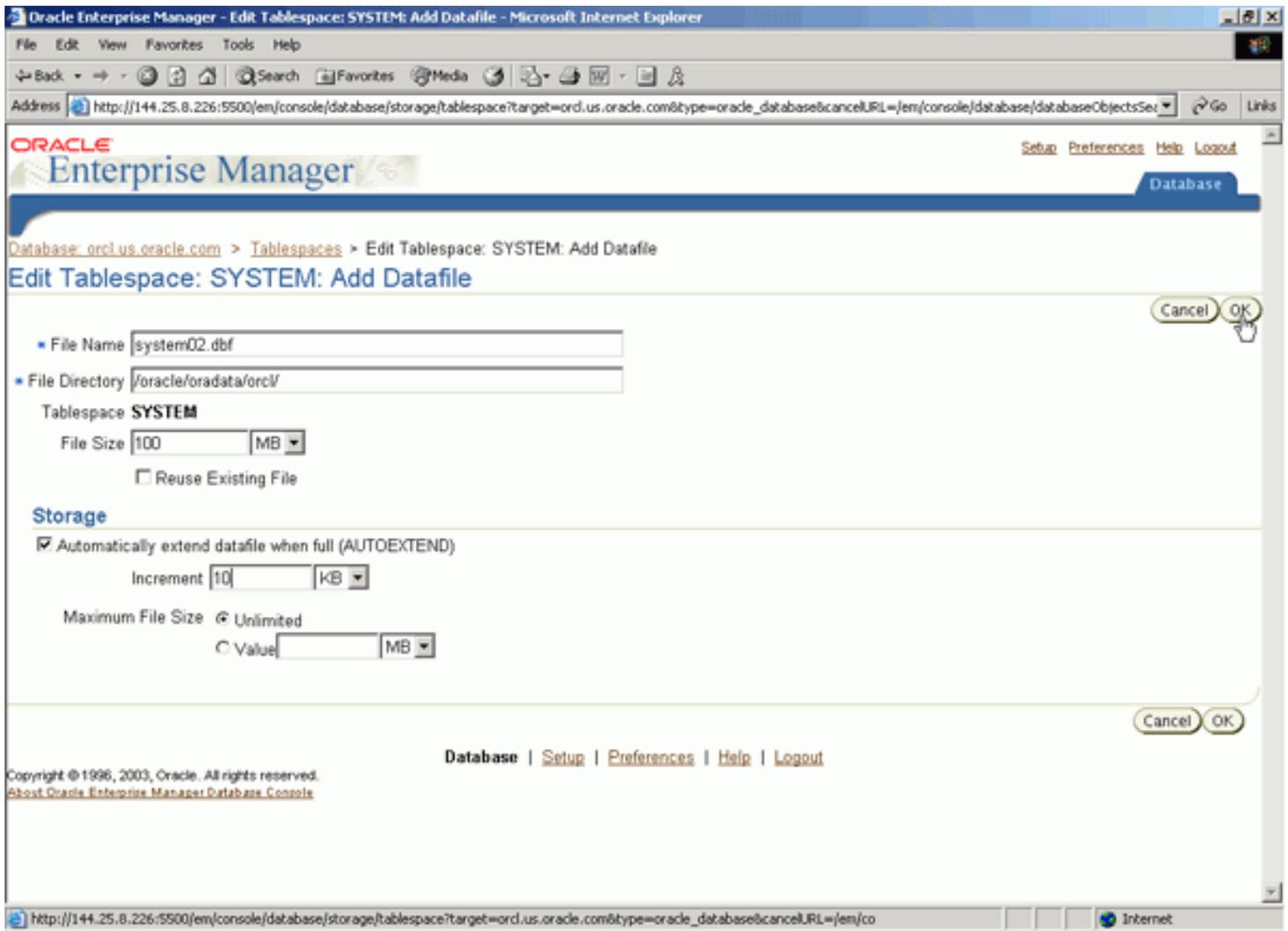
The screenshot shows the Oracle Enterprise Manager interface. At the top, there's a navigation bar with 'Database' selected. Below it, the page title is 'Tablespaces'. A search bar is present with a 'Go' button. The search results are displayed in a table with columns: Name, Type, Extent Management, Size (MB), Used (MB), and Used (%). The 'SYSTEM' tablespace is highlighted in blue. Below the table, there are links for 'Database | Setup | Preferences | Help | Logout'.

Select	Name	Type	Extent Management	Size (MB)	Used (MB)	Used (%)
<input checked="" type="radio"/>	EXAMPLE	PERMANENT	LOCAL	150.000	67.000	44.67
<input type="radio"/>	SYSAUX	PERMANENT	LOCAL	320.000	317.125	99.10
<input checked="" type="radio"/>	SYSTEM	PERMANENT	LOCAL	450.000	446.813	99.29
<input type="radio"/>	TEMP	TEMPORARY	LOCAL	23.000	22.000	95.65
<input type="radio"/>	UNDOTBS1	UNDO	LOCAL	65.000	29.750	45.77
<input type="radio"/>	USERS	PERMANENT	LOCAL	5.000	2.750	55.00

5. In the Datafiles section, click **Add** .



6. Enter **system02.dbf** for the file name, click the **Automatically extend datafile when full (AUTOEXTEND)** checkbox and enter **10 KB** for Increment. Then click **OK**.



7. Click **Apply** .

Oracle Enterprise Manager - Edit Tablespace: SYSTEM - Microsoft Internet Explorer

Database: orcl.us.oracle.com > Tablespaces > Edit Tablespace: SYSTEM

Edit Tablespace: SYSTEM

Buttons: Show SQL, Revert, Apply

General | Storage | Thresholds

Name:

Bigfile tablespace: **No**

Extent Management

- Locally Managed
- Dictionary Managed

Type

- Permanent
 - Set as default permanent tablespace
- Temporary
 - Set as default temporary tablespace
- Undo

Status

- Read Write
- Read Only
- Offline
 - Offline Mode:

Datafiles

Buttons: Add, Edit, Remove

Select	Name	Directory	Size (MB)	Used (MB)
<input checked="" type="radio"/>	system01.dbf	/oracle/oradata/orcl/	450.00	446.81
<input type="radio"/>	system02.dbf	/oracle/oradata/orcl/	100.00	0.00

General | Storage | Thresholds

Address: http://144.25.8.226:5500/em/console/database/storage/tablespace?target=orcl.us.oracle.com&type=oracle_database&cancelURL=/em/co

- You now see that the SYSTEM tablespace has more space in it for your upgrade.

Oracle Enterprise Manager Database

Database: orcl.us.oracle.com > Tablespaces Logged in As SYS

Tablespaces

Search

Name

Example: Entering Test will return all items beginning with upper case TEST, i.e. TEST_A, except for Java Source and Java Class which use case sensitive searches. Use double quotes to preserve case and embed wildcards(%).

Results

Select	Name	Type	Extent Management	Size (MB)	Used (MB)	Used (%)
<input checked="" type="radio"/>	EXAMPLE	PERMANENT	LOCAL	150.000	67.000	44.67
<input type="radio"/>	SYSAUX	PERMANENT	LOCAL	330.000	320.188	97.03
<input type="radio"/>	SYSTEM	PERMANENT	LOCAL	550.000	446.938	81.26
<input type="radio"/>	TEMP	TEMPORARY	LOCAL	23.000	22.000	95.65
<input type="radio"/>	UNDOTBS1	UNDO	LOCAL	65.000	32.250	49.62
<input type="radio"/>	USERS	PERMANENT	LOCAL	5.000	2.750	55.00

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[About Oracle Enterprise Manager Database Control](#)

Database | [Setup](#) | [Preferences](#) | [Help](#) | [Logout](#)

Upgrading your Database using the Database Upgrade Assistant

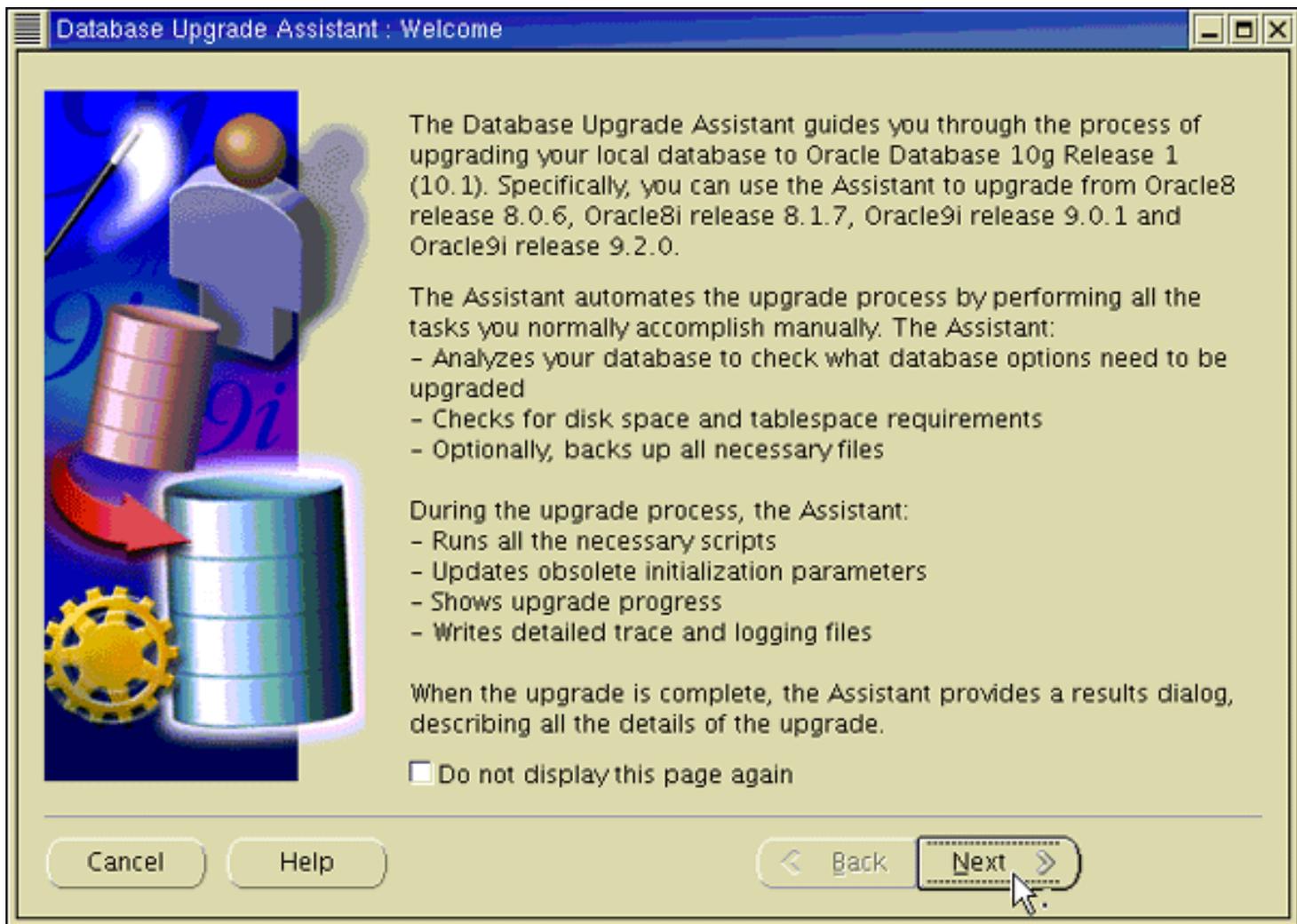
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To install the Oracle software you must use the GUI installer.

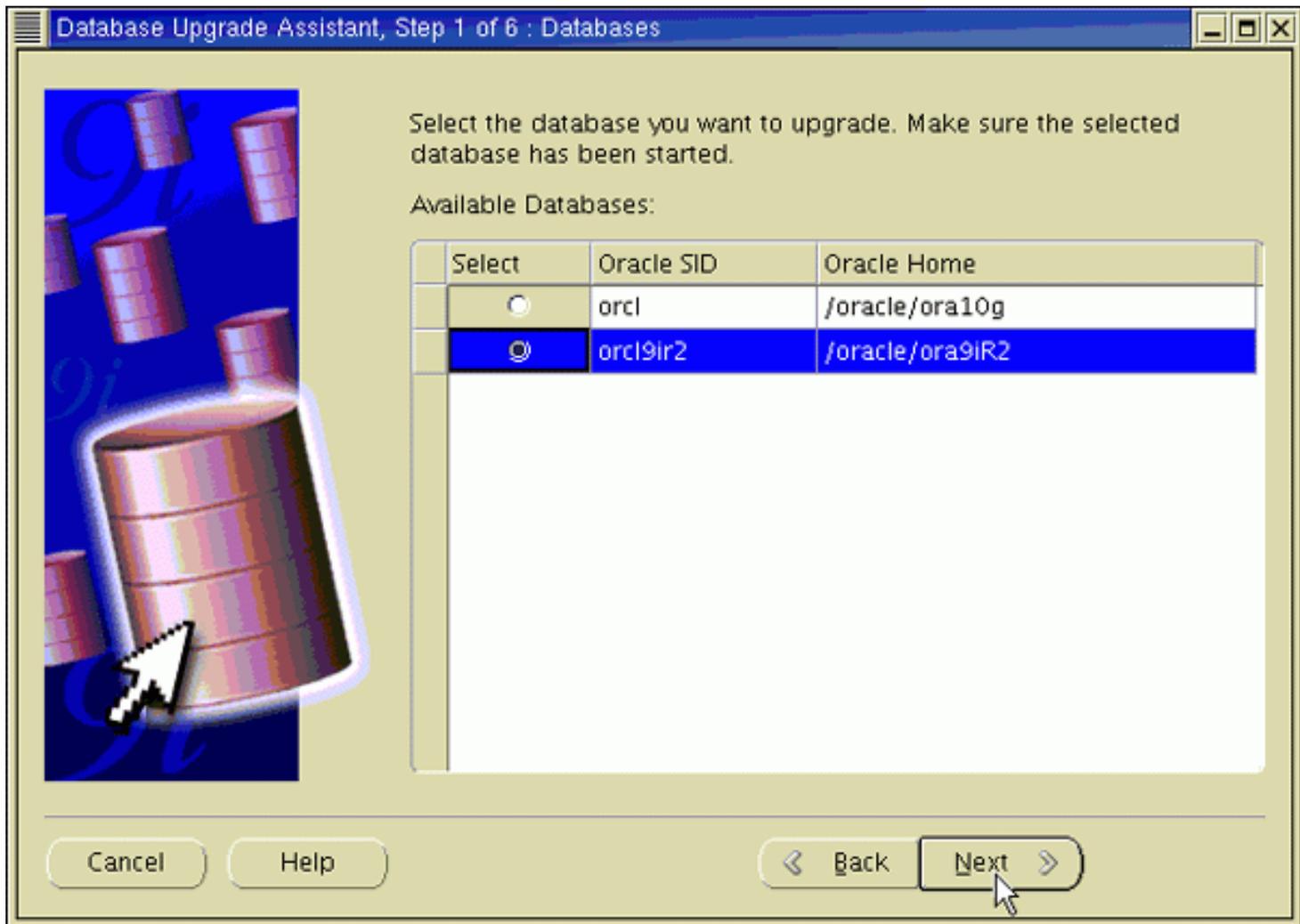
1. Open a terminal window and execute the following commands:

```
cd /oracle/ora10g/bin
dbua
```

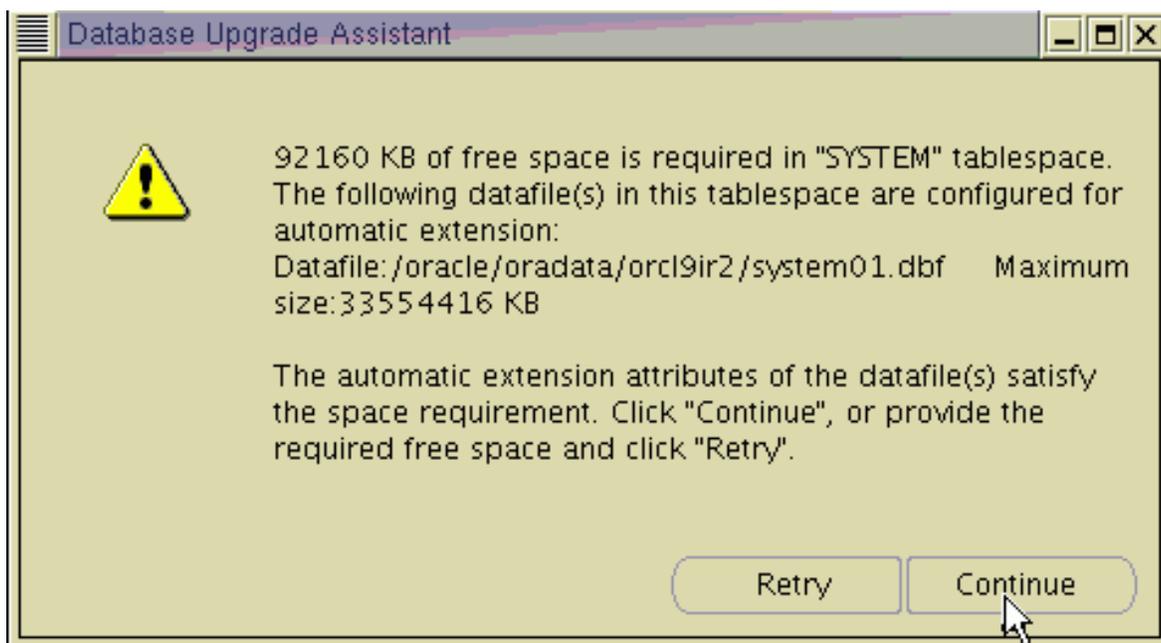
2. At the Welcome window, click **Next** .



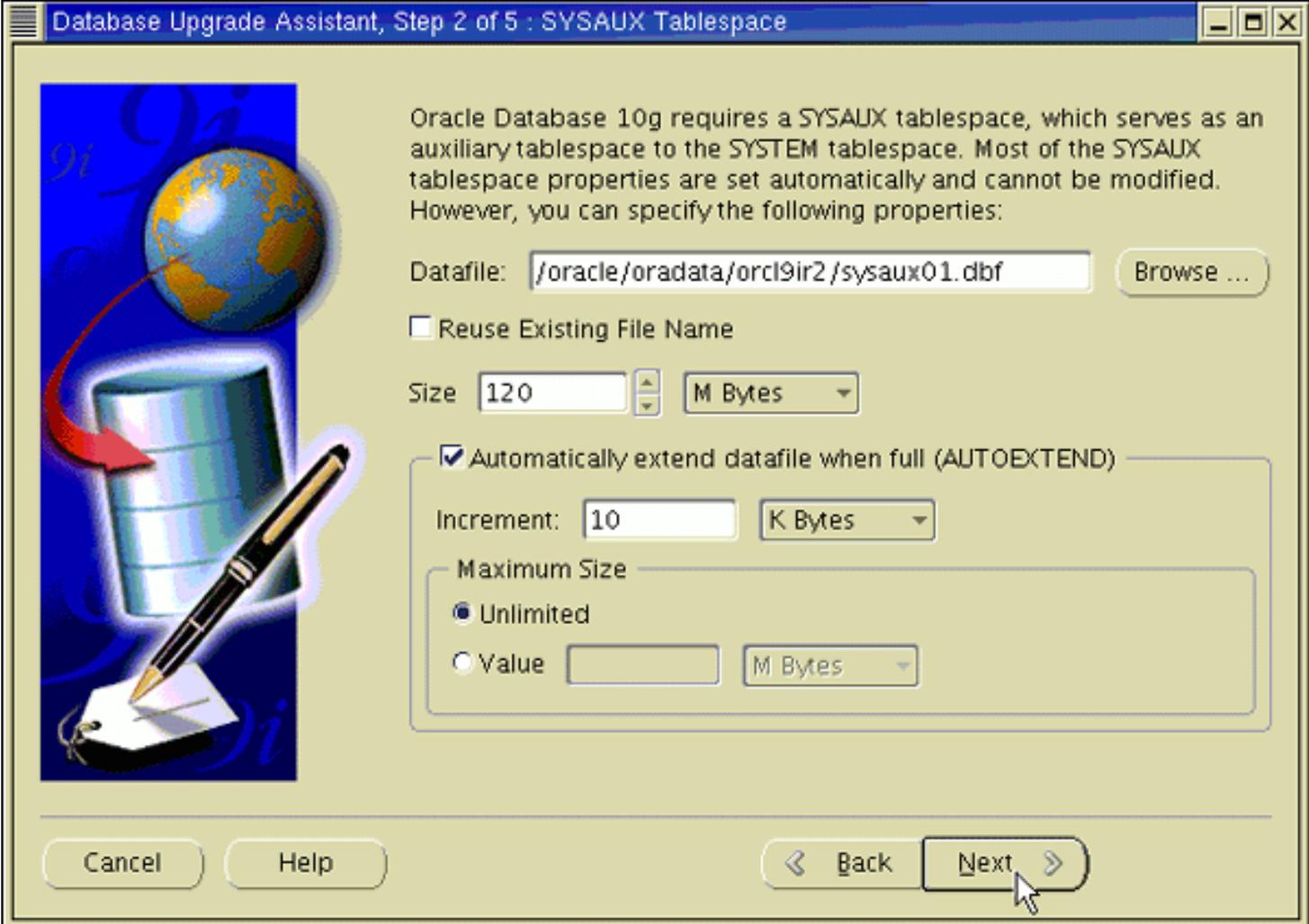
3. Select your Oracle9i Database from the list and click **Next** .



4. You want to automatically extend the SYSTEM tablespace. Click **Continue** .



5. You need to create a SYSAUX tablespace. Accept the default and click **Next** .



Database Upgrade Assistant, Step 2 of 5 : SYSAUX Tablespace

Oracle Database 10g requires a SYSAUX tablespace, which serves as an auxiliary tablespace to the SYSTEM tablespace. Most of the SYSAUX tablespace properties are set automatically and cannot be modified. However, you can specify the following properties:

Datafile:

Reuse Existing File Name

Size

Automatically extend datafile when full (AUTOEXTEND)

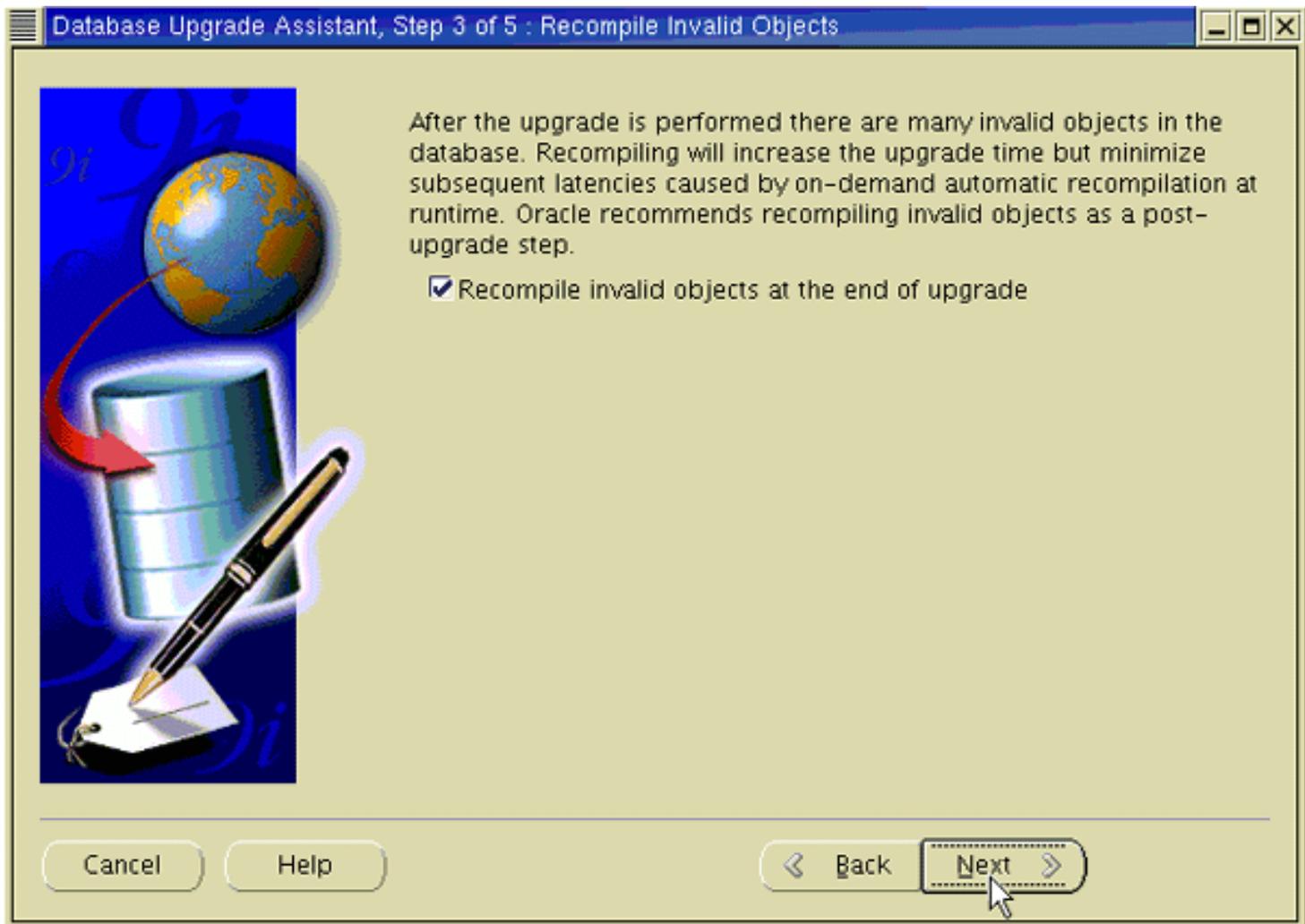
Increment:

Maximum Size

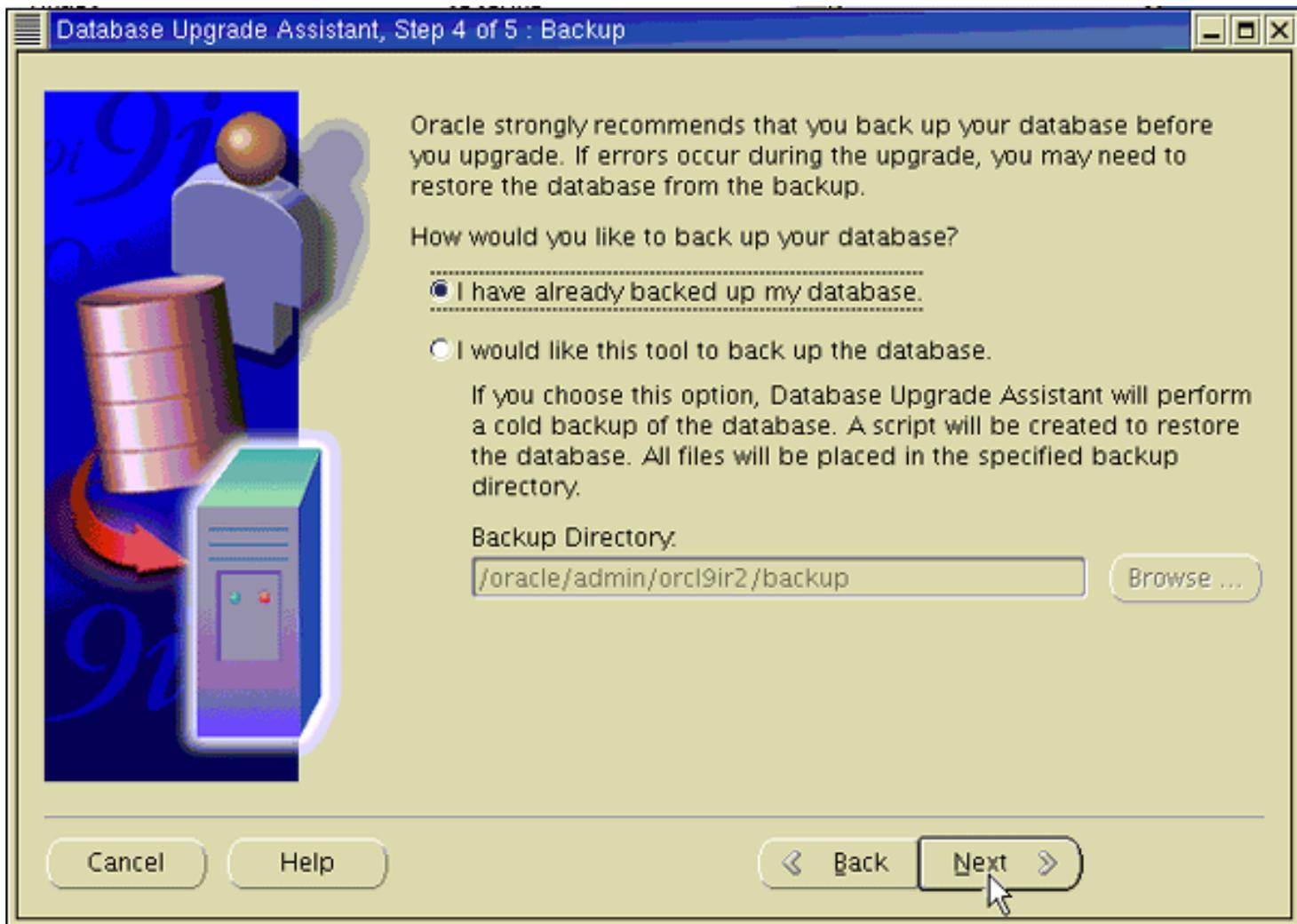
Unlimited

Value

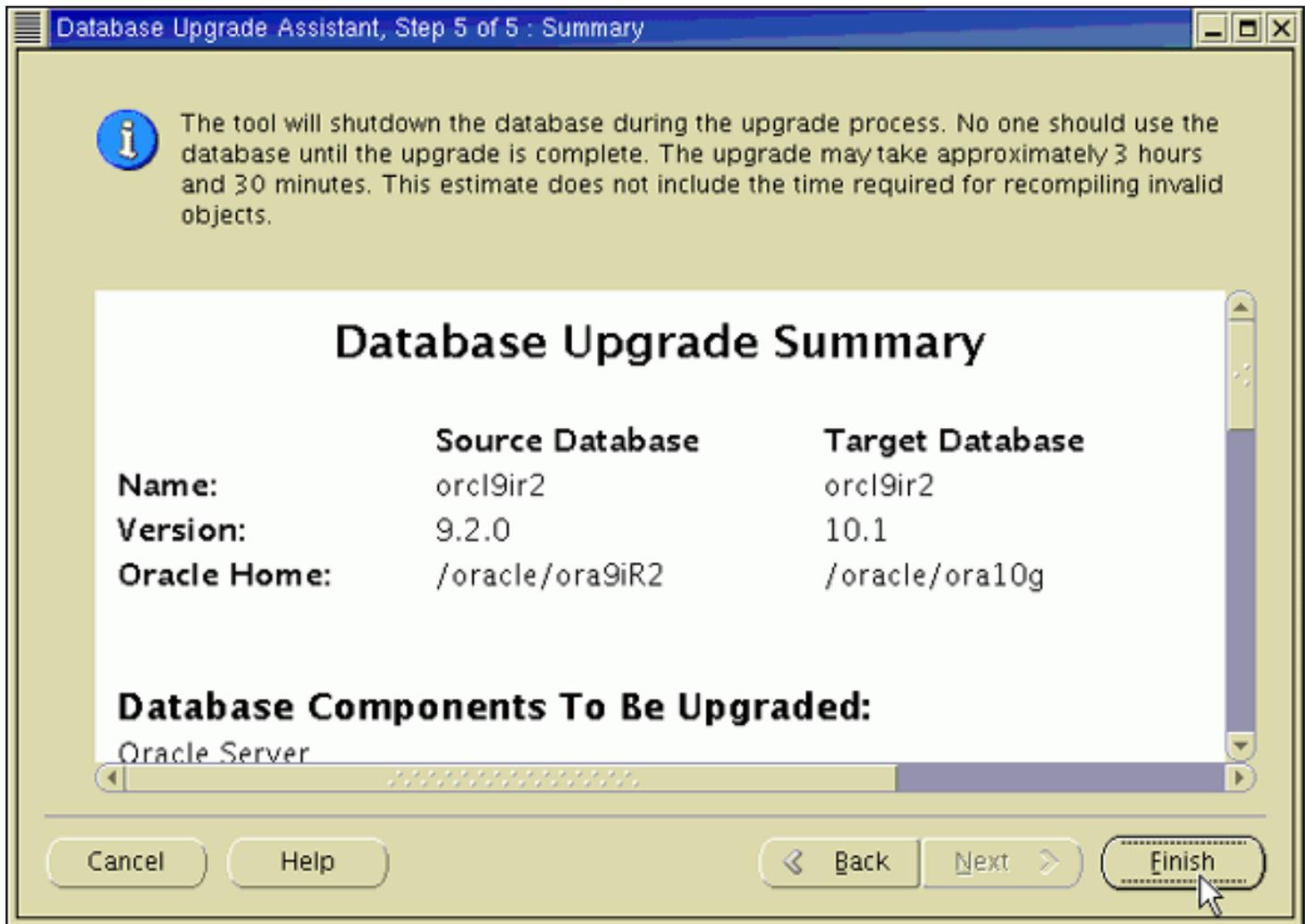
6. You want to recompile invalid objects at the end of the upgrade. Accept the default and click **Next** .



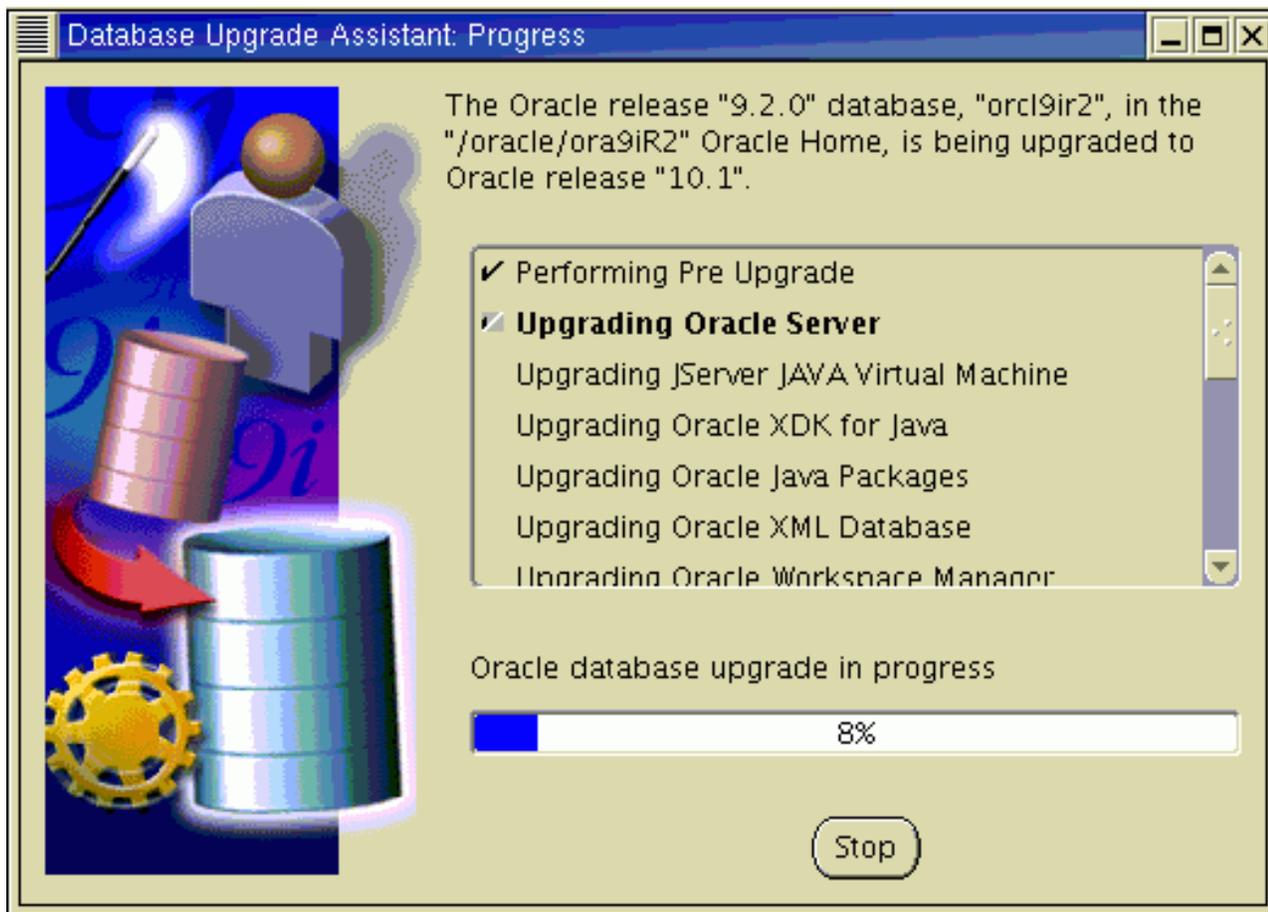
7. You will not take a backup of your Oracle9i Database during the upgrade process. Click **Next**.



8. At the Summary screen, review what will be done and click **Finish** .

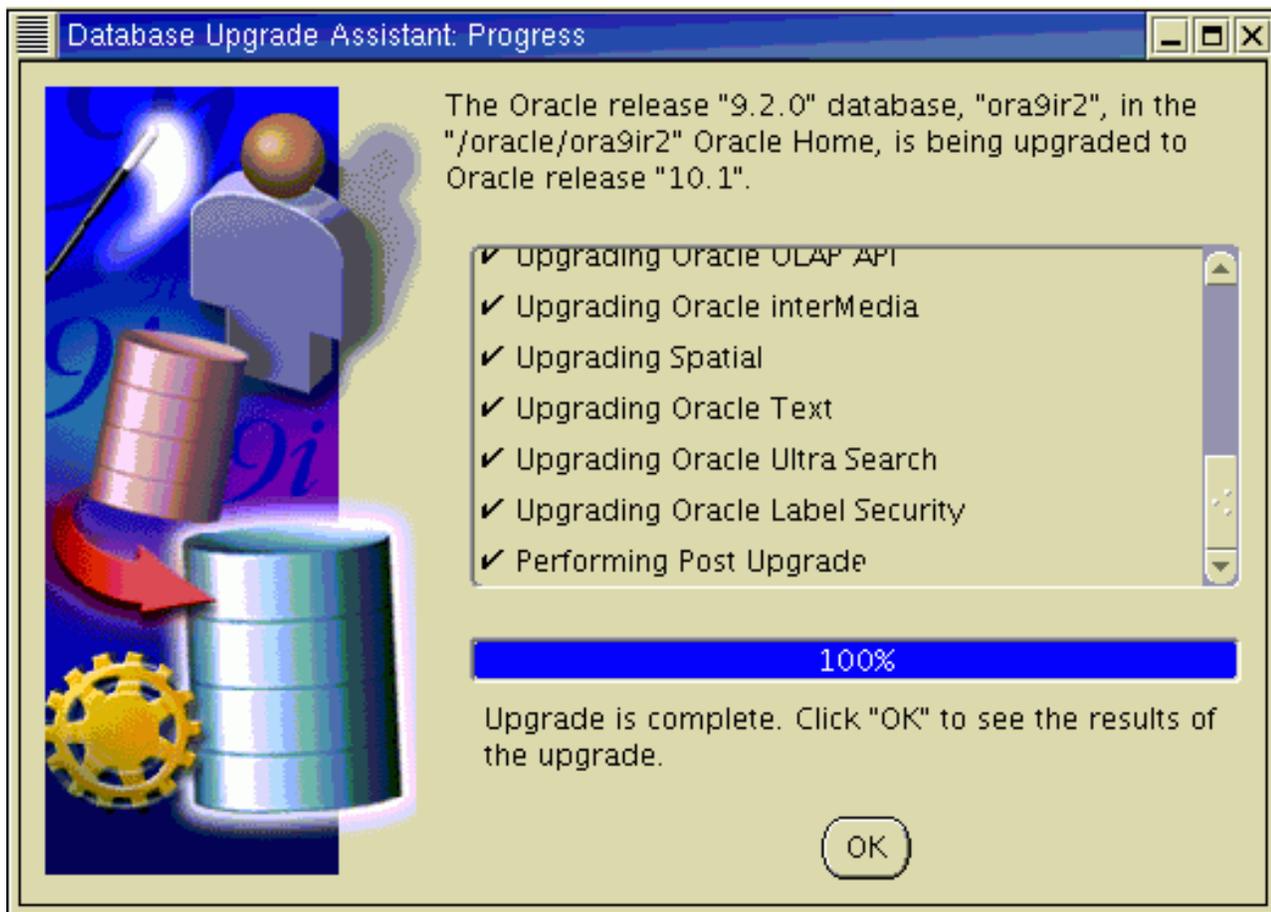


9. You will see the progress window.



When your upgrade has completed, click **OK** .

10.



You see the summary of the upgrade. Scroll down to see the output. When done, click **Close** .

11.

