

Oracle 11g DBA Fundamentals Overview

Lesson 02: Creating an Oracle Database

Lesson Objectives



Deciding How to Create an Oracle Database

Manually Creating an Oracle Database

Understanding the CREATE DATABASE Statement

Initialization Parameters and Database Creation

Dropping a Database

Managing Initialization Parameters Using a Server Parameter File

Viewing Information About the Database

- Using Data Dictionaries
- Using EM

Using DBCA







Use the Database Configuration Assistant (DBCA)
Use the CREATE DATABASE statement
Upgrade an existing database

Manually Creating an Oracle Database



- Step 1: Decide on Your Instance Identifier (SID)
- Step 2: Establish the Database Administrator Authentication Method
- Step 3: Create the Initialization Parameter File
- Step 4: Connect to the Instance
- Step 5: Create a Server Parameter File (Recommended)
- Step 6: Start the Instance
- Step 7: Issue the CREATE DATABASE Statement
- Step 8: Create Additional Tablespaces
- Step 9: Run Scripts to Build Data Dictionary Views
- Step 10: Run Scripts to Install Additional Options (Optional)
- Step 11: Back Up the Database.

Understanding the CREATE DATABASE Statement



Creates the datafiles for the database

Creates the control files for the database

Creates the redo log files for the database and establishes the ARCHIVELOG mode.

Creates the SYSTEM tablespace and the SYSTEM rollback segment

Creates the SYSAUX tablespace

Creates the data dictionary

Sets the character set that stores data in the database

Sets the database time zone

Mounts and opens the database for use

Initialization Parameters and Database Creation



Determining the Global Database Name

Specifying a Flash Recovery Area

Specifying Control Files

Specifying Database Block Sizes

Managing the System Global Area (SGA)

Specifying the Maximum Number of Processes

Specifying the Method of Undo Space Management

Dropping a Database



To use the DROP DATABASE statement successfully, all of the following conditions must apply:

- The database must be mounted and closed
- The database must be mounted exclusively--not in shared mode
- The database must be mounted as RESTRICTED

An example of this statement is:

DROP DATABASE;





What Is a Server Parameter File?

Migrating to a Server Parameter File

Creating a Server Parameter File

The SPFILE Initialization Parameter

Managing Initialization Parameters Using a Server Parameter File

Using ALTER SYSTEM to Change Initialization Parameter Values

Exporting the Server Parameter File

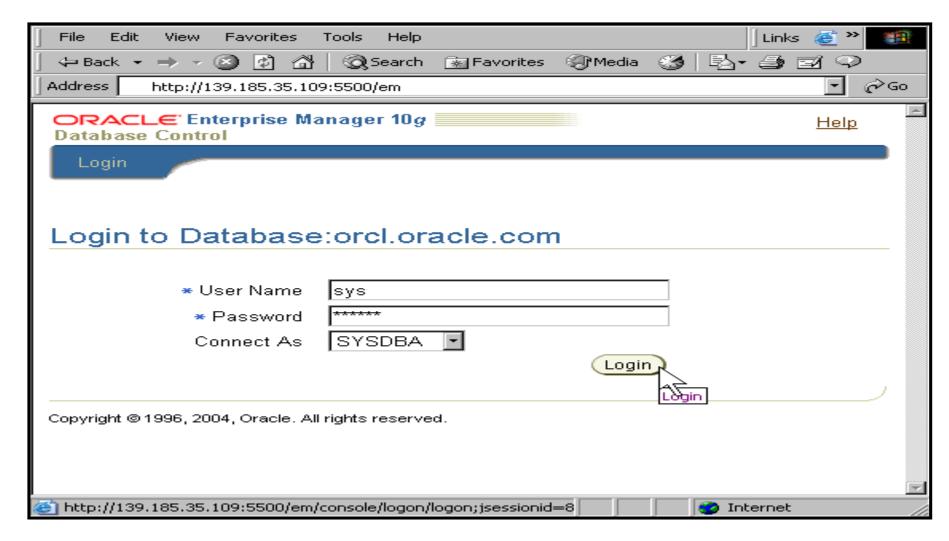
Backing Up the Server Parameter File

Errors and Recovery for the Server Parameter File

Viewing Parameter Settings

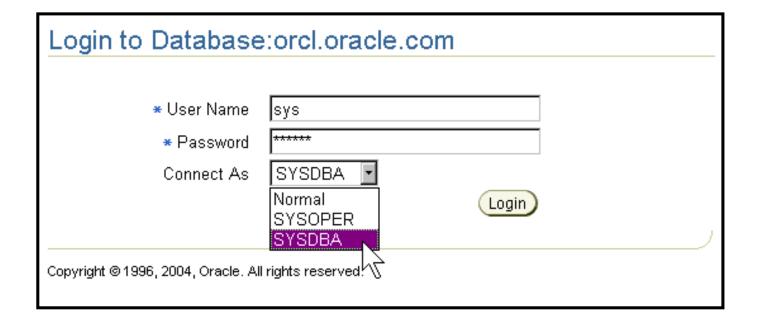
Accessing Database Control





SYSOPER and SYSDBA





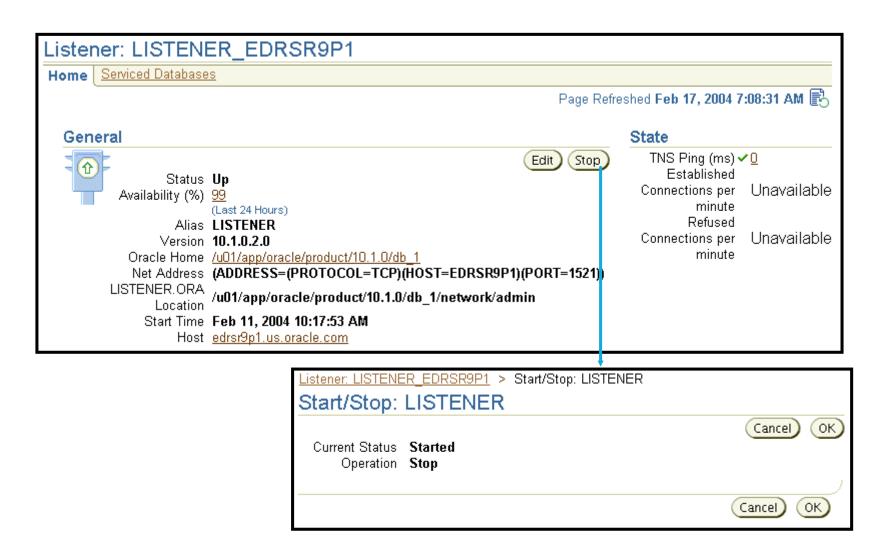
Database Home Page





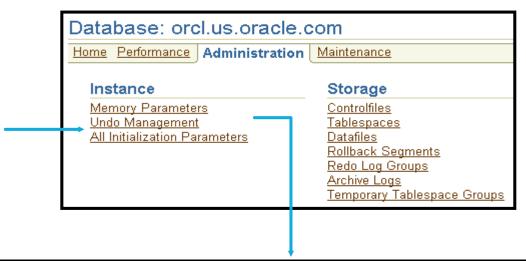
Changing the Listener Status

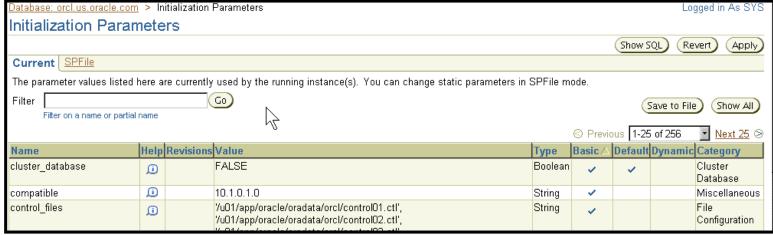






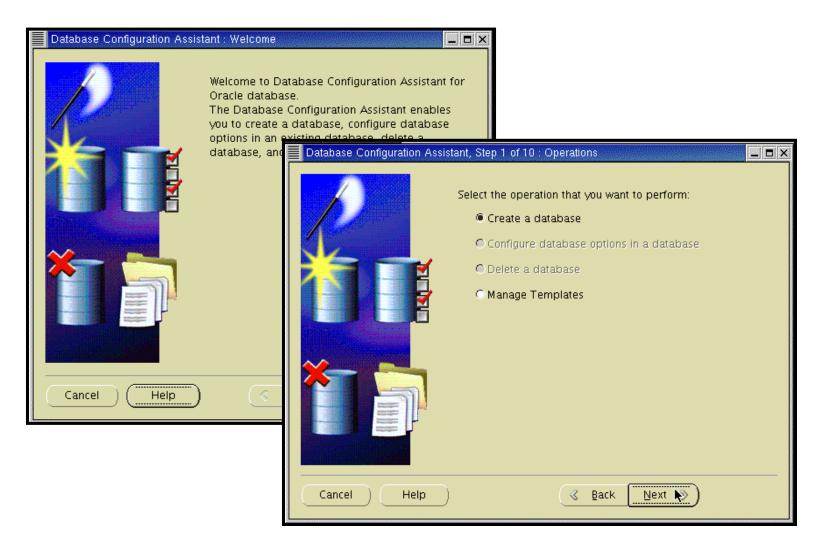






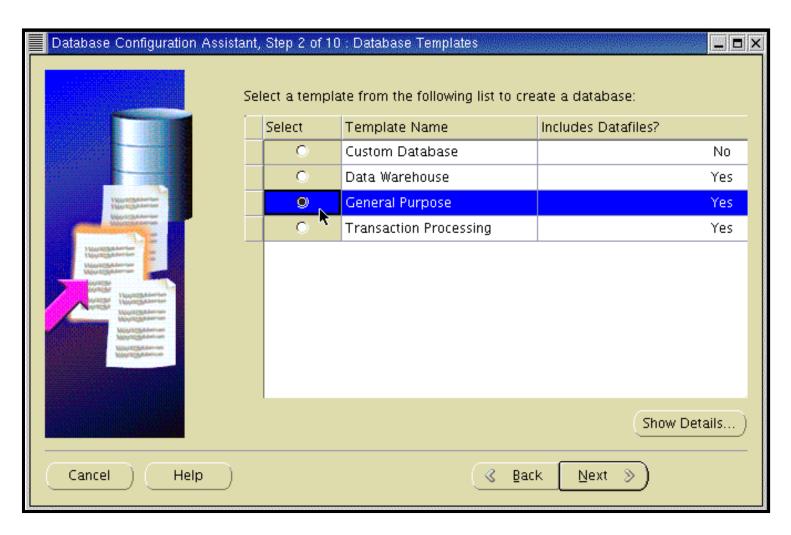






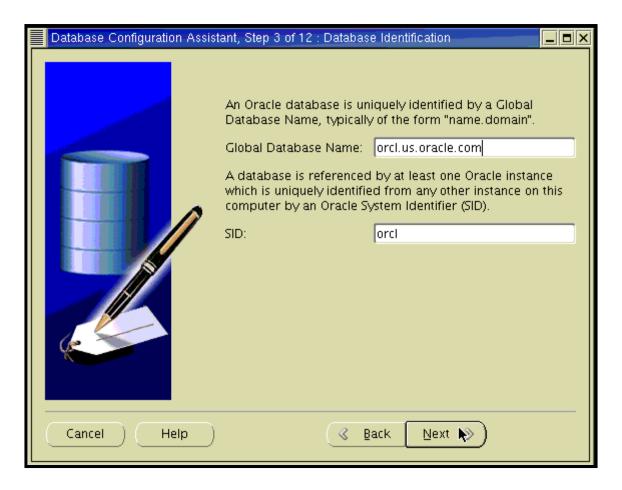
Creating a Database





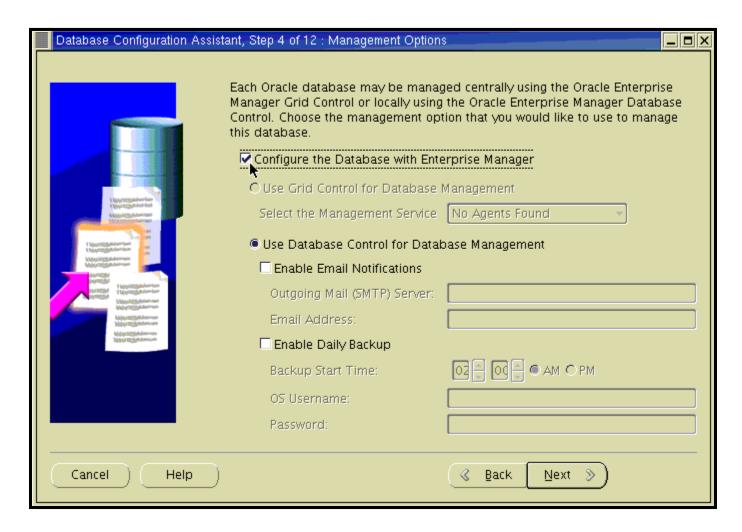
Database Identification





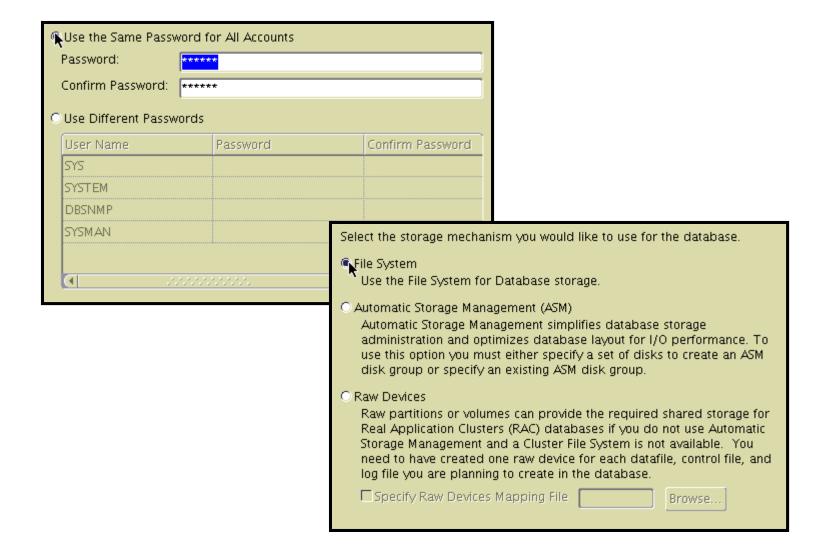
Management Options





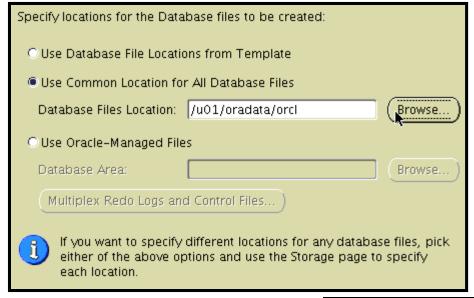








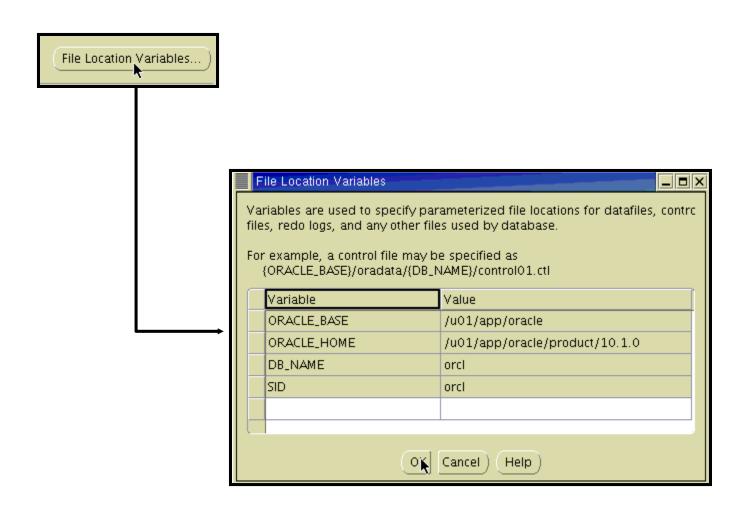






File Location Variables





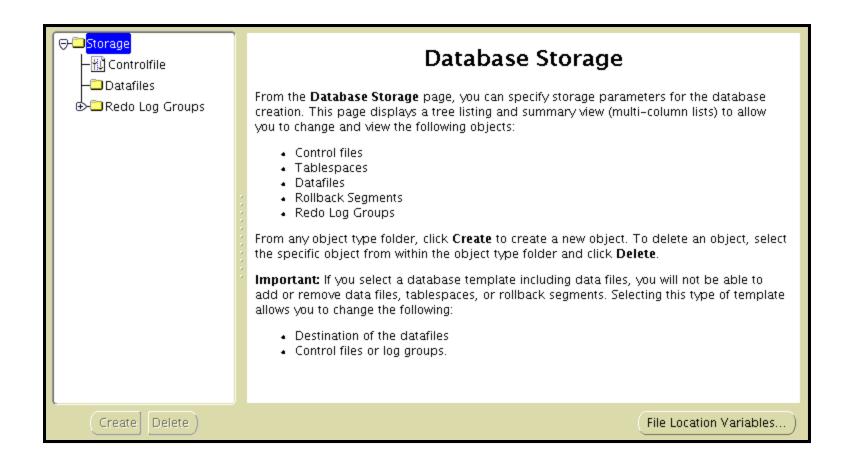




Sample Schemas Custom Scripts Sample Schemas illustrate the use of a layered approach to complexity, and are used by some demonstration programs. Installing this will give you the following schemas in your database: Human Resources, Order Entry, Online Catalog , Product Media, Queued Shipping, Sales History . It will also create a tablespace called EXAMPLE. The tablespace will be about 130 MB.			
Specify whether or not to add	Memory Sizing	Character Sets	Connection Mode
Sample Schemas	© Typical – Allocate memory as a percentage of the total physical memory (1000 MB) Percentage: 70 Show Memory Distribution		
	© Custom		
	Shared Memory Management:	C Automatic Manu	al
	Shared Pool:	80	M Bytes 🔻
	Buffer Cache:	24	M Bytes 🔻
	Java Pool:	48	M Bytes 🔻
	Large Pool:	8	↑ M Bytes ▼
	PGA Size:	24	M Bytes ▼
	Total Memory for Oracle: 224 M Bytes Total memory includes 40MB of Oracle Process Size and the defaults for the empty parameters, if any. All Initialization Parameters		

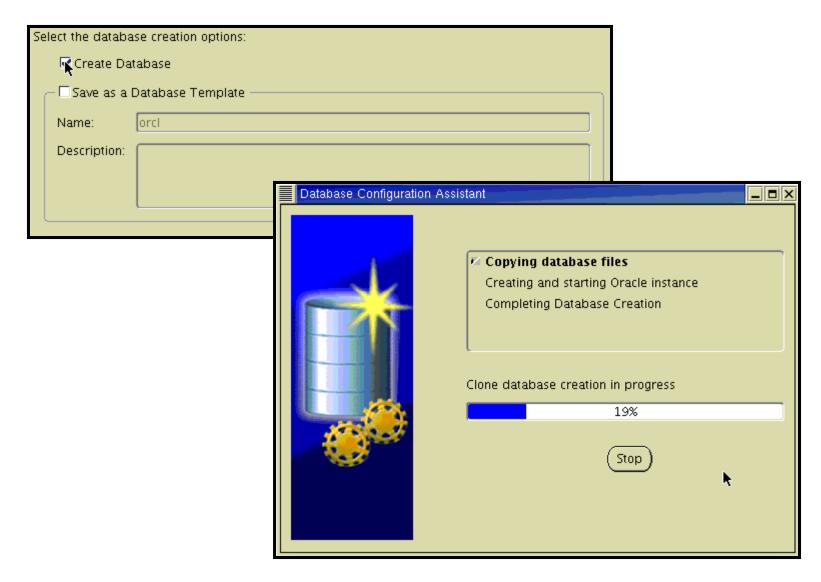
Database Storage





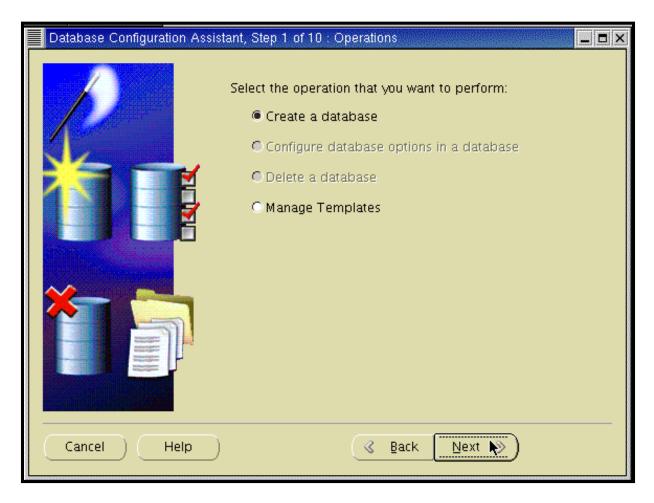






Other Actions with DBCA





Practice 3: Creating an Oracle Database



This practice covers creating an Oracle database by using DBCA.

Lab: Creating an Oracle Database



This practice covers creating an Oracle database manually.

SUMMARY

- Deciding How to Create an Oracle Database
- Manually Creating an Oracle Database
- Understanding the CREATE DATABASE Statement
- Initialization Parameters and Database Creation
- Dropping a Database
- Managing Initialization Parameters Using a Server Parameter File
- Viewing Information About the Database
 - Using Data Dictionaries
 - Using EM
- Using DBCA