Creating an Oracle Database

Objectives

After completing this lesson, you should be able to do the following:

- Create a database with the Database Configuration Assistant (DBCA)
- Create a database design template with the DBCA
- Generate database creation scripts with the DBCA

Planning the Database

As a DBA, you must plan:

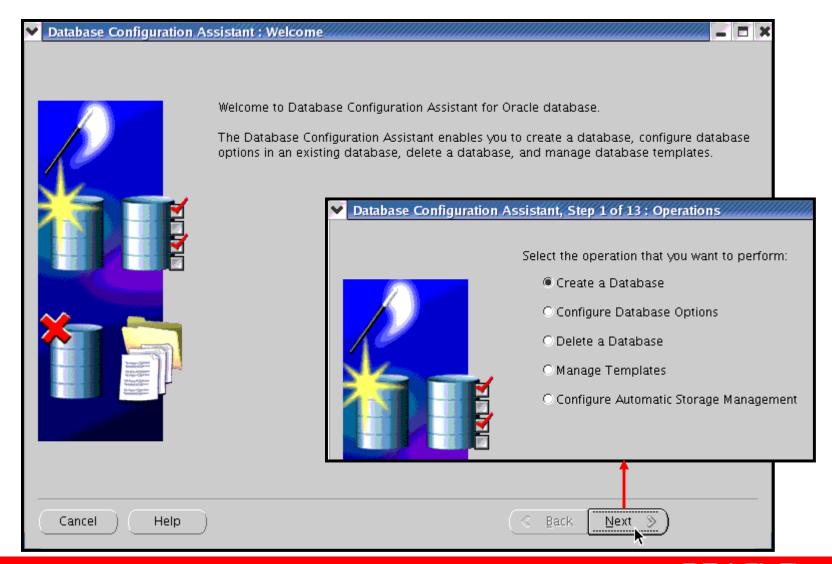
- The logical storage structure of the database and its physical implementation:
 - How many disk drives do you have for this?
 - How many data files will you need? (Plan for growth.)
 - How many tablespaces will you use?
 - Which type of information will be stored?
 - Are there any special storage requirements due to type or size?
- The overall database design
- A backup strategy for the database

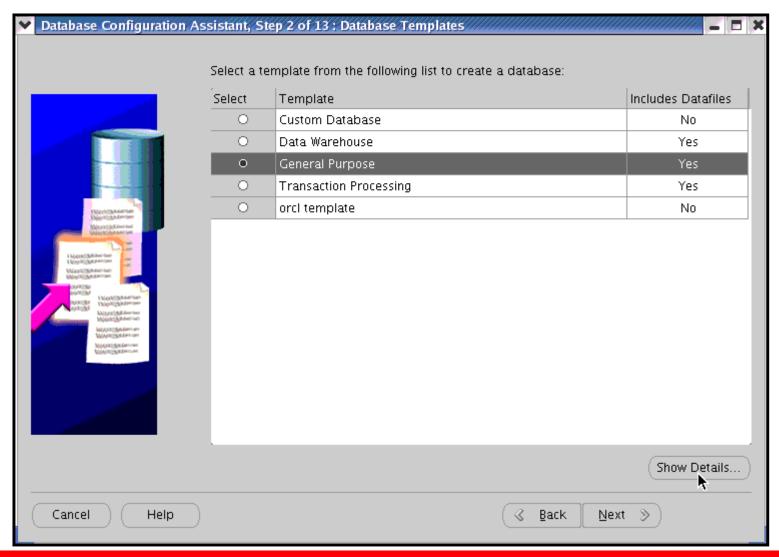


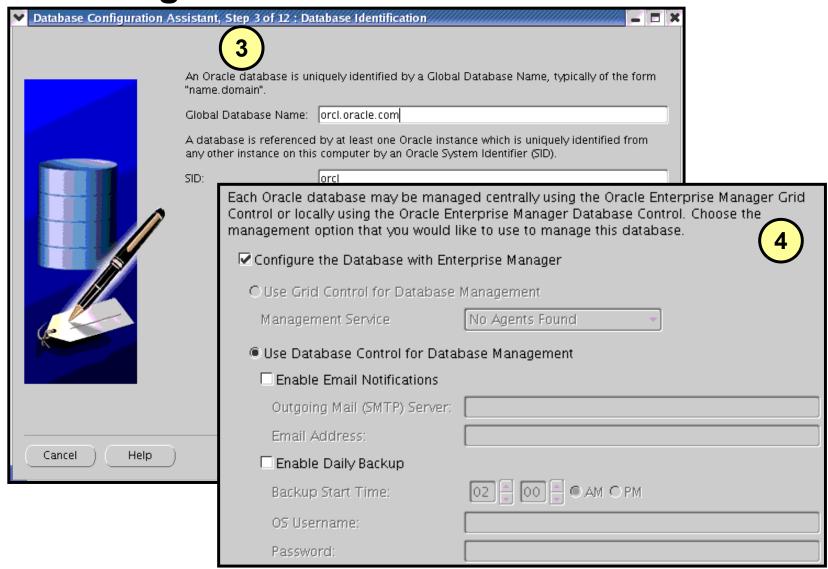
Databases: Examples

- Data Warehouse:
 - Research and marketing data
 - State or federal tax payments
 - Professional licensing (doctors, nurses, and so on)
- Transaction Processing:
 - Store checkout register system
 - Automatic teller machine (ATM) transactions
- General Purpose:
 - Retail billing system, for example, of a software house or a nursery

Database Configuration Assistant (DBCA)



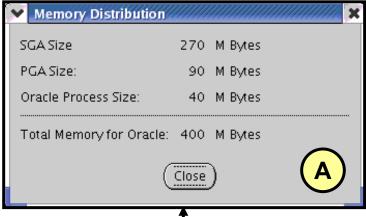


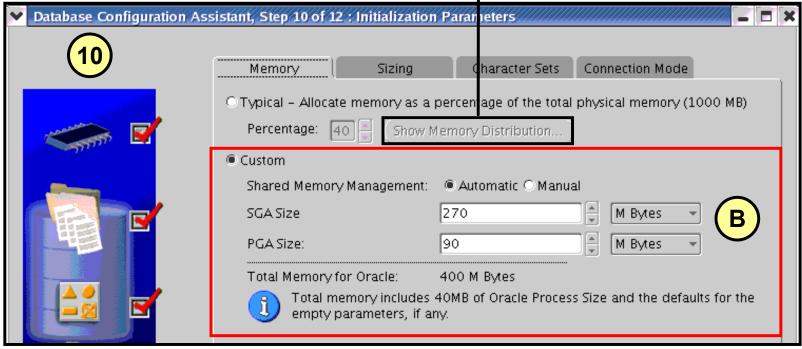


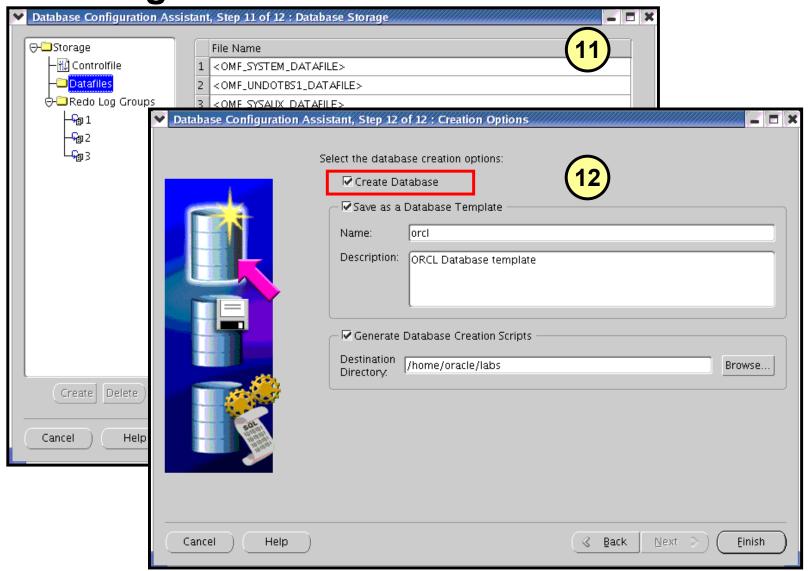
| For security reasons, you must specify passwords for the following user accounts in the new database. | | | |
|--|--|--|--|
| Use the Same Password for All Accounts | | | |
| Password: ***** | | | |
| Confirm Password: ***** | | | |
| O Use Different Pas Select the storage mechanism you would like to use for the database. | | | |
| © File System Use the File System for Database storage. | | | |
| Specify locations for the Database files to be created: | ration and | | |
| O Use Database File Locations from Template | u must either ng ASM disk group. | | |
| O Use Common Location for All Database Files | | | |
| Database Files Location: Browse | r Real Application ment and a Cluster | | |
| • Use Oracle-Managed Files | | | |
| Database Area: {ORACLE_BASE}/oradata Browse | vse | | |
| Multiplex Redo Logs and Control Files | | | |
| If you want to specify different locations for any database files, pick either of the above options and use the Storage page to specify each location. | | | |



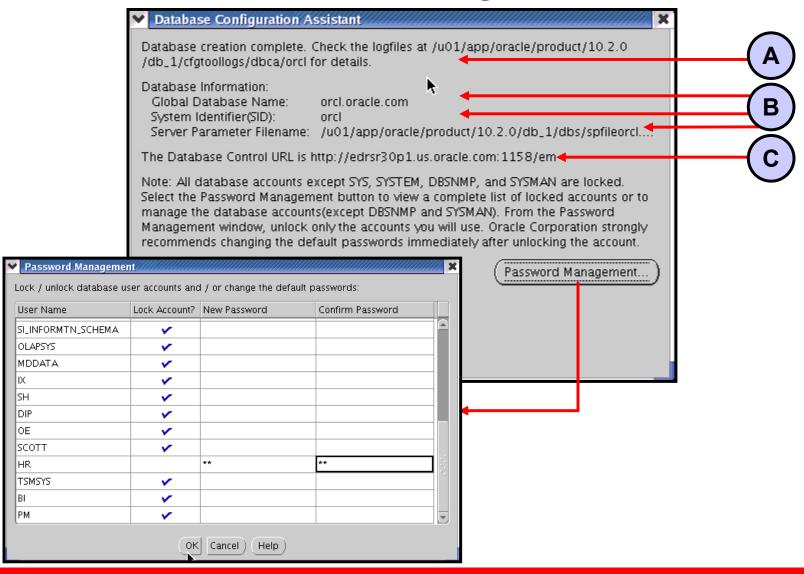
| Sample Schemas | Custom Scripts | | |
|---|---------------------|--------------------------------|--|
| Sample Schemas illustrate the use of a layered approach to complexity, and are used by some demonstration programs. Installing this will give you the following schemas in your database: Human Resources, Order Entry, Online Catalog, Product Media, Information Exchange, Sales History. It will also create a tablespace called EXAMPLE. The tablespace will be about 130 MB. | | | |
| Specify whether o | r not to add the Sa | mple Schemas to your database. | |
| ✓ Sample Scher | nas | | |



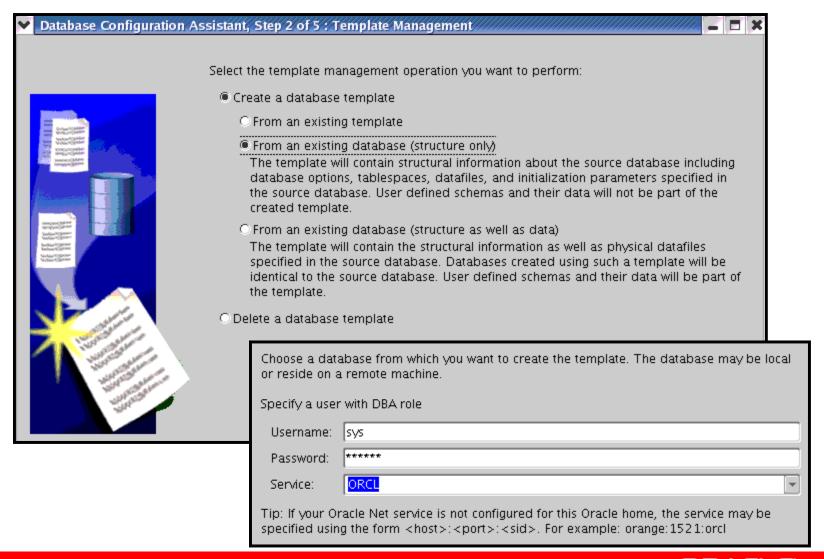


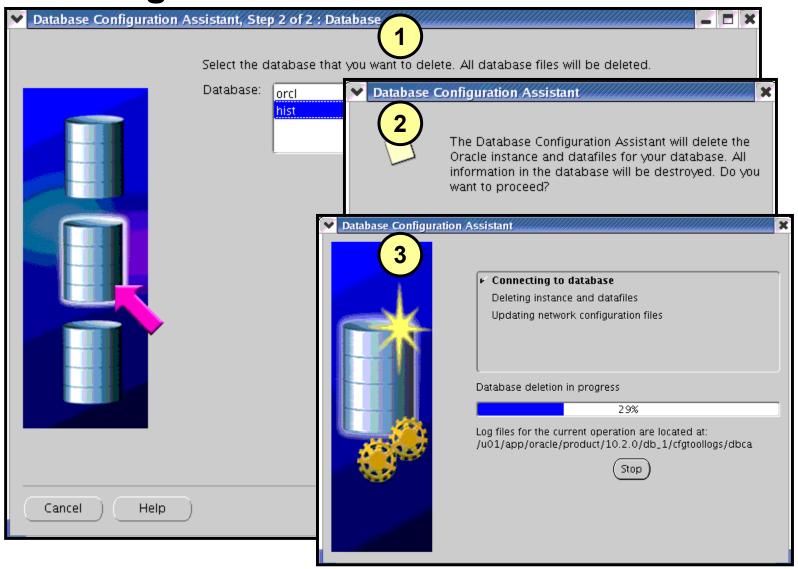


Password Management



Creating a Database Design Template





Summary

In this lesson, you should have learned how to use the DBCA to:

- Create a database
- Create a database design template
- Generate database creation scripts

Practice Overview: Using the DBCA

This practice covers the following topics:

- Creating the ORCL database by using the DBCA
- Unlocking the HR schema

Note: Completing the database creation and unlocking the HR schema is critical for all following practice sessions.

Optionally:

- Creating the ORCL database design template by using the DBCA
- Creating database creation scripts with the DBCA