

Creating an Oracle Database by Using DBCA

Objectives

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

- Create a database by using the Database Configuration Assistant (DBCA)
- Generate database creation scripts by using DBCA
- Manage database design templates by using DBCA
- Configure database options by using 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? What type of storage is being used?
 - How many data files will you need? (Plan for growth.)
 - How many tablespaces will you use?
 - What types of information will be stored?
 - Are there any special storage requirements due to type or size?
- Overall database design
- Database backup strategy



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Types of Databases

- General purpose or transaction processing:
 - Online transaction processing (OLTP) system, for example a retail billing system for a software house or a nursery
- Custom:
 - Multipurpose database (perhaps combined OLTP and data warehouse functionality)
- Data warehouse:
 - Research and marketing data
 - State or federal tax payments
 - Professional licensing (doctors, nurses, and so on)

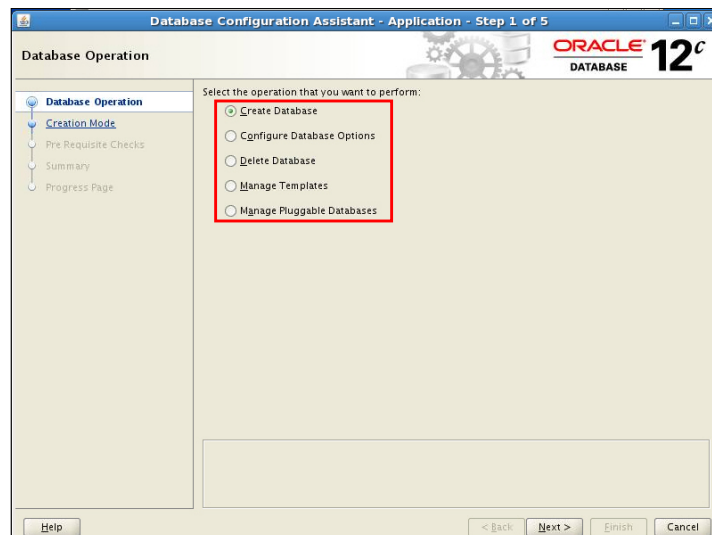
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Choosing the Appropriate Character Set

- Oracle Database supports different classes of character-encoding schemes:
 - Single-byte character sets
 - 7-bit
 - 8-bit
 - Multibyte character sets, including Unicode
- The character set is chosen at the time of database creation. Choose the character set that best meets your business requirements now and in the future because it can be difficult to change character sets later on.
- In general, Unicode is recommended because it is the most flexible character set.

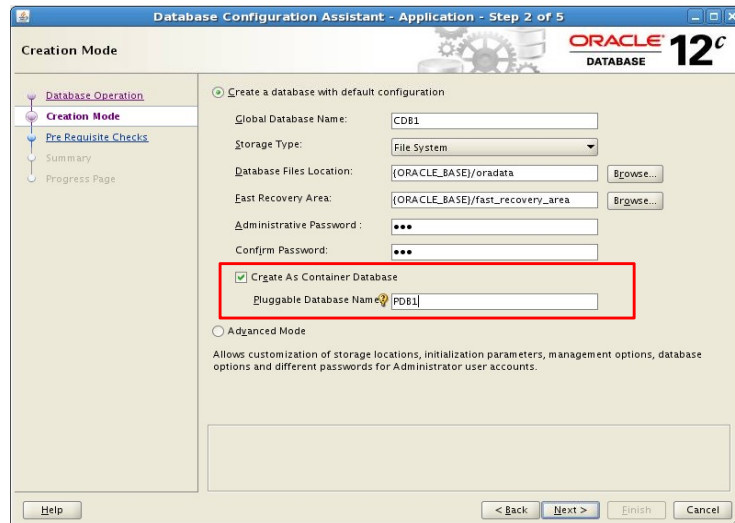
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Using the DBCA to Create a Database



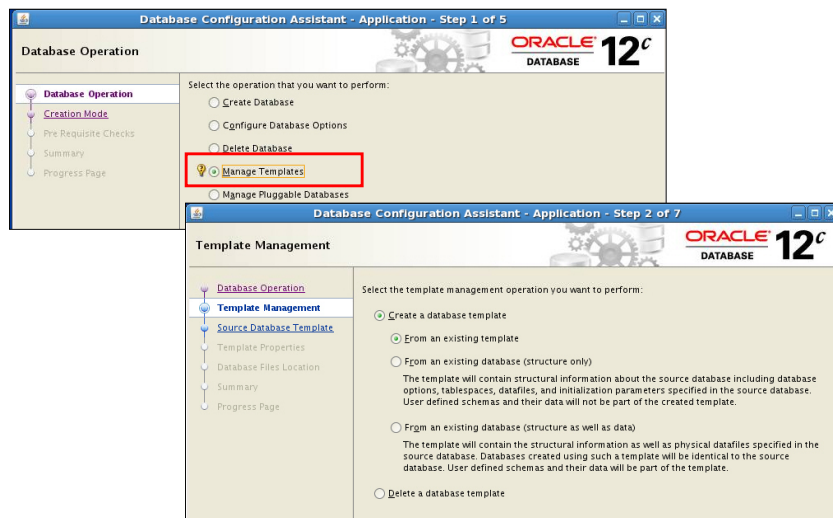
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Creating a Container Database by Using DBCA



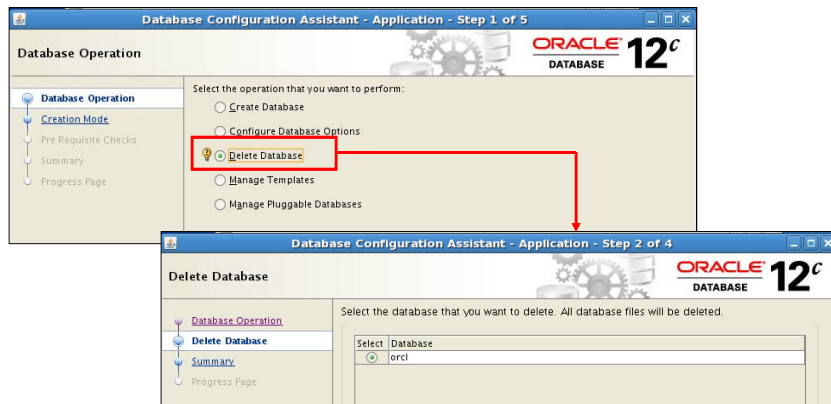
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Creating a Database Design Template



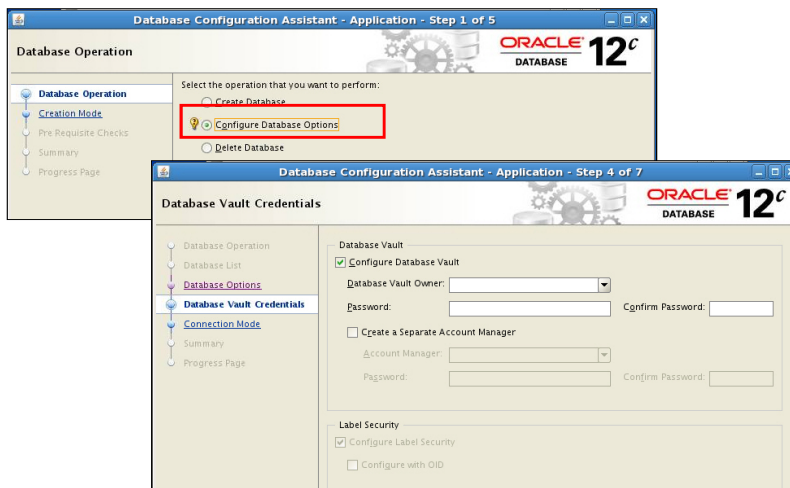
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Using the DBCA to Delete a Database



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Using the DBCA for Additional Tasks



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Summary

In this lesson, you should have learned how to:

- Create a database by using the Database Configuration Assistant (DBCA)
- Generate database creation scripts by using DBCA
- Manage database design templates by using DBCA
- Configure database options by using DBCA