## **Oracle Training: Mastering Oracle Database Administration** (ORADBA, 4 jours)

## Description

The course Mastering Oracle Database Administration (Oracle Training) is a complete study of Oracle database administration. We learn all about Oracle installation, configuration, databases, tablespaces, control files, data files, log files and more. The course discusses Oracle troubleshooting and diagnostics, fault tolerance, security, partitioning, and flashback management. The training also includes a discussion on performance tuning through an introduction to the use of indexes and statistics in Oracle database operations.

## Tarifs

- Tarification: \$3,750/person
- Rabais de 10% lorsque vous inscrivez 3 personnes.

## Plan de cours

Oracle Architecture
The Database Instance and the Database
The Oracle Physical Architecture: Oracle, Cloud Control and More
Databases and Container Databases
About the Physical Layer: Data Files and Redo Log Files
The Structure of Physical Storage: Segments, Extents and Blocks
About the Logical Layer: Tablespaces
About the Control File
The Role of the pfile and the spfile
About Oracle Memory: The SGA and the PGA
About Processes: DBWn, CKPT, LGWR and More
Exploring the Data Modification Process from Request to Disc Write
Installing Oracle
Exploring Installation Options
Exploring the Response File and the DBCA
Configuring Preparing Oracle Linux for and Oracle installation
Creating Security Accounts and Groups
Setting Environment Variables
Running the Oracle Installation in Silent Mode
Creating the Database
Understanding the role of the Listener
Interacting with the Listener using lsnrctl
Setting Installation Options
Creating the Database in Silent Mode
Exploring the Artifacts Created by the Installation
Oracle Startup and Shutdown
Connecting for the First Time with SQL*Plus
Configuring SQL*Plus: Configuring History and the Prompt
Exploring the Oracle Startup-Shutdown Lifecycle: Start, Mount and Open
Exploring Startup Options
Exploring Shutdown Options
About Parameter Files and Server Parameter Files

About Modifying the System Run Time Configuration Modifying the SPFILE: SPFILE, MEMORY or BOTH Oracle Memory Management and the Shared Server Architecture About Oracle Memory Management: Automatic Versus Manual Revisiting the Data Modification Lifecycle: The Database Buffer Cache Understanding the Role of the SGA and the PGA **Configuring Memory Thresholds** Understanding the Shared Server Architecture Configuring the Shared Server Architecture Configuring Dispatchers for Scalability Mastering Control Files How Control Files Are Used During Oracle Startup About Control Files and The Default Oracle Tablespaces About Control Files, Log Files and Data Files **Creating Additional Control Files** Viewing Alert and Log Data **Creating Control File Backups** managing tables and tablespaces Logical Data Structures Versus Physical Data Structures **Exploring Oracle Data Blocks** About Oracle Default Tablespaces **Getting Tablespace Information Creating Tablespaces** Adding Files to and Dropping Files from Tablespaces Creating Encrypted Tablespaces -----About Asymmetric Encryption and Linux Understanding the Role of the Oracle Wallet Creating and Opening an Oracle Wallet Creating a Key in the Wallet Creating an Encrypted Tablespace Creating an Encrypted Table Creating and Managing Online Redo Log Files **Exploring the Log Archive Process** ARCHIVELOG VS NOARCHIVELOG Revisiting the Data Modification Workflow Understanding Failure Scenarios and the Critical Role of the Log Archive Working with Log Files and Log File Groups Working With Archive Redo Log Files Protecting Against Failure with Archive Redo Log File Groups **Exploring Undo Tablespace Management Configuring Flashback Operations** Troubleshooting Oracle Options For Writing to and Viewing The Log Files and The Trace Files Diagnosing the Reason for an Oracle Instance Startup Failure Generating a pfile from a Running Instance Starting Oracle By Specifying A pfile Generating a spfile from a pfile Oracle Security About Oracle User Security Architecture **Creating and Managing Profiles** 

**Exploring Administrative Privileges Creating Users** Creating Roles and Assigning System Privileges **Assigning Object Privileges Creating Default Roles** Understanding Schemas and Their Relationship to Users **Exploring Ownership Chains** Creating Tables Creating Tables and Specifying Tablespaces Adding Primary Keys and Foreign Keys **About Execution Plans** Exporting Execution Plans to The Trace File Working With Stored Outlines Managing Statistics The Importance of Statistics Viewing The Statistics **Updating Table Statistics** Creating Schedule Tasks to Update Statistics Managing Indexes Exploring Indexes and Their Use In Relational Databases Oracle index types: Bitmap, B-Tree, Index Organized and More **Creating B-Tree Indexes Creating Index Organized Tables** Viewing Index Information The Benefits of Covering Indexes Revisiting Execution Plans when Indexes are Present