Oracle Database 18c Administration

Duración: 5 Días **Código del Curso: O18CDBA**

Temario:

Oracle Database 18c Administration Course Overview

English - Please note this course is only available in English.
Español - Por favor, tenga en cuenta que esta formación solo está disponible en inglés.
This Oracle Database 18c Administration course is designed to give the Oracle database administrator practical experience in adminis

Dirigido a:

Who will the Course Benefit?

Objetivos:

- Course Objectives
- This course aims to provide the delegate with the knowledge required to maintain successful and efficient day-to-day operations of an Oracle database. The delegate will gain practical experience in administering and monitoring an Oracle database.

Prerequisitos:

Delegates who wish to attend the Oracle Database 18c Administration course should have an understanding of relational database concepts and good operating system knowledge. They should have attended the Oracle SQL course or have a good working knowledge of Oracle SQL. The ability to describe and use Oracle built-in PL/SQL packages would be highly advantageous but is not essential.

This course is run on a Linux operating system,a basic knowledge of Linux/UNIX is recommended but is not essential.

Siguientes cursos recomendados:

Further Learning

- Oracle Database 19c Install & Upgrade
- Oracle Database 19c Backup and Recovery with RMAN
- Oracle Database 19c DBA Performance Tuning & Management
- Oracle Database 19c Data Guard
- Oracle Database 19c RAC and Grid Infrastructure Administration
- Oracle Database 12cR2,18c and 19c New Features for Administrators
- Oracle Multitenant Administration

Contenido:

Oracle Database 18c Administration Training Course Course Contents - DAY 1

Course Introduction

- Administration and Course Materials
- Course Structure and Agenda
- Delegate and Trainer Introductions

Session 1: INTRODUCTION TO ORACLE DATABASE

- Overview of the Oracle database
- Overview of the Oracle Cloud
- Relational database concepts
- Database administration tasks

Session 2: ORACLE DATABASE 18c ARCHITECTURE

- Overview of the Oracle database architecture
- The Oracle database instance
- Oracle Database memory structures
- Process architecture and structures
- Server and client processes
- The Oracle database storage architecture
- Connect to the Oracle database instance

Session 3: ADMINISTER A DATABASE INSTANCE

- Administrative tools available to a DBA
- Use SQL*Plus in Oracle to manage a database instance
- Use SQL Developer to manage a database instance
- Administer the database using Enterprise Manager (EM)
- Overview of the Enterprise Manager framework
- Access Enterprise Manager Database Express
- The Enterprise Manager Database Express Home Page
- Enterprise Manager Cloud Control
- Initialization parameter files

Session 4: CONFIGURE THE ORACLE NETWORK ENVIRONMENT

- Overview of network configuration
- Oracle Net Listener configuration and management
- Oracle Net naming methods
- Tools for configuring and managing the Oracle network
- Using the Net Configuration Assistant
- Configure client connections with Net Manager
- View listener configuration
- Start and stop the Oracle listener

Session 7: MANAGE PRIVILEGES

- Database access
- Oracle supplied roles
- System and object level privileges
- The grant and revoke commands
- Create,modify and drop roles
- Use predefined roles

Session 8: MANAGE PROFILES AND RESOURCES

- Overview of user profiles
- Profile resource parameters
- Create profile command
- Manage passwords with profiles
- Control resource usage with profiles
- Maintain profiles

Session 9: DATABASE AUDITING

- Overview of database security
- Overview of database auditing
- Security compliance
- Standard auditing
- Unified audit trail
- Separation of audit responsibilities with the AUDIT_ADMIN and AUDIT_VIEWER roles
- Configure the audit trail
- Specify audit options Oracle Database 18c Administration Training Course Course Contents - DAY 3

Session 10: DATA CONCURRENCY AND LOCK CONFLICTS

- Levels of locking in Oracle
- Methods used to acquire locks
- Data concurrency
- Possible causes of contention
- DML locks
- Prevent locking problems
- Detect lock contention
- Resolve conflicts

Session 11: UNDO MANAGEMENT

- Undo data overview
- Monitor and administer undo
- Configure undo retention
- Switch undo tablespaces
- Specify the retention period
- Guarantee undo retention
- Retention period for flashback queries
- View undo space information
- Use the undo advisor
- Size the undo tablespace
- Alter an undo tablespace to a fixed size

Session 12: BACKUP AND RECOVERY CONFIGURATION

Session 15: SQL TUNING

- SQL tuning
- Cancel a SQL Statement in a Session
- The Oracle Optimizer
- SQL Plan directives
- Adaptive execution plans
- SQL Advisors
- Automatic SQL Tuning results
- Implement automatic tuning recommendations
- SQL Tuning Advisor

Session 16: MOVING DATA

- Create directory objects
- Data Pump architecture
- Data Pump data dictionary views
- Data Pump interactive mode
- Data Pump API
- Use Data Pump to export data
- Use Data Pump to import data
- Overview of SQL Loader
- Command line parameters
- Record filtering
- Control file keywords
- Datafiles
- SQL Loader data paths
- External Tables

Session 17: MANAGING RESOURCES WITH RESOURCE MANAGER

- Overview of the Database Resource Manager
- Use the Resource Manager
- Create Resource Plans
- The default maintenance resource manager plan
- Create Resource Plan Directives
- Allocate resources for Resource Plans

Session 18: AUTOMATE TASKS WITH THE SCHEDULER

- Introduction to the Scheduler
- Access Rights
- Scheduler components and workflow
- Create a Job
- Job Classes
- Use time based,event based schedules
- Create an event based schedule Oracle Database 18c Administration Training Course Course Contents - DAY 5

Session 19: MANAGE SPACE

- Overview of space management
- Block space management within segments
- Segment types
- Allocate extents
- Allocate space
- Row chaining and migration

- Use TNSPING to test Oracle Net connectivity
- Connect to the database
- Configure Net Services with Enterprise Manager

Session 5: STORAGE STRUCTURES

- Overview of data storage
- The database block
- Overview of tablespaces and datafiles
- Use Enterprise Manager to view the storage structure of the database
- Create and alter tablespace commands
- Temporary tablespaces
- Create and manage datafiles
- Use OMF
- Drop tablespaces and datafiles Oracle Database 18c Administration Training Course Course Contents - DAY 2

Session 6: MANAGE USERS

- Predefined database administration accounts
- User accounts
- Create a user account
- User authentication
- Change a user's password
- Manage a user account
- Drop a user account
- Monitor user information
- Terminate user sessions
- Create a Schema Only Account
- Oracle backup solutions
- Oracle suggested backup strategy
- Overview of database backup,restore and recover
- Flashback technology
- Types of failure
- Instance recovery
- Tune instance recovery
- The MTTR Advisor
- Media failure
- Configure a database for recoverability

Session 13: PROACTIVE DATABASE MAINTENANCE

- Database Maintenance
- View the alert log
- The Automatic Workload Repository
- Statistic levels
- The Automatic Database Diagnostic Monitoring
- Monitor an Oracle database
- Use the Advisors
- Set up notification rules

Session 14: PERFORMANCE MANAGEMENT

- Tuning information sources
- Performance monitoring
- Tuning activities
- Performance planning
- Instance tuning
- Performance tuning methodology
- Performance tuning data
- Monitoring performance
- Managing memory
- Manage Private Temporary Tables Oracle Database 18c Administration Training Course Course Contents - DAY 4
- Create tables without segments

Session 20: ORACLE SUPPORT

- The Enterprise Manager Support Workbench
- Register for security updates
- Work with Oracle Support
- My Oracle Support integration
- Log Service Requests
- Manage patches
- Apply a patch

Más información:

Para más información o para reservar tu plaza llámanos al (34) 91 425 06 60

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