skillsoft[₽] global knowledge_™

Oracle Database 12cR2 Administration

Cursusduur: 5 Dagen Cursuscode: 012CDBA

Beschrijving:

Oracle Database 12cR2 Administration Course Overview

This Oracle Database 12cR2 Administration course is designed to give the Oracle database administrator practical experience in administering, monitoring, tuning and troubleshooting an Oracle 12c database.

A database administrator will gain an understanding of the architecture and processes of the Oracle database server. The delegate will learn how to ensure the integrity and availability of a company's data within the Oracle environment. The delegate will also learn how to monitor the performance of a database, allocate resources with the Resource Manager and schedule jobs with the Oracle Job scheduler. Exercises and examples are used throughout the course to give practical hands-on experience with the techniques covered. Versions supported 12cR2,18c,19c.

Doelgroep:

Who will the Course Benefit?

This Oracle Database 12cR2 Administration course is for anyone who needs to administer, monitor and support an Oracle 12cR2, 18c or 19c database.

Doelstelling:

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 12c database.

Vereiste kennis en vaardigheden:

Delegates who wish to attend the Oracle Database 12cR2 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.

Vervolgcursussen:

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 12cR2,18c and 19c New Features for Administrators

Cursusinhoud:

Oracle Database 12cR2 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 12c

- Overview of the Oracle database 12c
- Overview of the Oracle Cloud
- Relational database concepts
- Database administration tasks

Session 2: ORACLE DATABASE 12c 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

O12CDBA

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 12cR2 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

www.globalknowledge.com/nl-nl/

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

Overview of SQL Loader

Command line parameters

Data Pump API

Record filtering

External Tables

Datafiles

Manager

Control file keywords

SQL Loader data paths

RESOURCE MANAGER

Use the Resource Manager

Create Resource Plans

manager plan

SCHEDULER

Access Rights

Create a Job

Job Classes

Segment types

Allocate extents
 Allocate space

info@globalknowledge.nl

Session 17: MANAGING RESOURCES WITH

Overview of the Database Resource

The default maintenance resource

Create Resource Plan Directives

Introduction to the Scheduler

Allocate resources for Resource Plans

Scheduler components and workflow

Use time based, event based schedules

Course Course Contents - DAY 5

Session 19: MANAGE SPACE

Row chaining and migration

Overview of space management

Create an event based schedule Oracle

Database 12cR2 Administration Training

Block space management within segments

030 - 60 89 444

Session 18: AUTOMATE TASKS WITH THE

Use Data Pump to export data
Use Data Pump to import data

- 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 12cR2 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 12cR2 Administration Training Course Course Contents - DAY
- 4

Nadere informatie:

Neem voor nadere informatie of boekingen contact op met onze Customer Service Desk 030 - 60 89 444

info@globalknowledge.nl

www.globalknowledge.com/nl-nl/

lepenhoeve 5, 3438 MR Nieuwegein

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