Oracle Database 12c: Administration Workshop

Varighed: 5 Days   Kursus Kode: D78846GC10

Beskrivelse:

The Oracle Database 12c: Administration Workshop will teach you about the Oracle Database architecture. You will discover how to effectively manage an Oracle Database instance, configure the Oracle Network Environment and perform database maintenance.
Benefits to You
Ensure fast, reliable, secure and easy to manage performance. Optimize database workloads, lower IT costs and deliver a higher quality of service by enabling consolidation onto database clouds.
Participate in Hands-On Practices and Demonstrations
Expert instruction and hands-on demonstrations will provide you with real world experience. By engaging in hands-on exercises to reinforce your learning, you'll develop in demand skills to effectively manage an Oracle Database.

Målgruppe:

Data Warehouse-administratorDatabaseadministrator

Agenda:

- Monitor the Database

- Manage Database Performance

- Implement Database Auditing

- Configure the Database Instance Such That Resources Are Appropriately Allocated Among Sessions and Tasks

- Schedule Jobs to Run Inside or Outside of the Database

- Configure Oracle Net Services

- Configure your Database For Backup and Recovery Operations

- Describe Oracle Database Architecture

- Manage the Oracle Database Instance

- Manage Oracle Database Storage structures

- Create and Administer User Accounts

Forudsætninger:

Required Prerequisites:

- Working knowledge of SQL and use of PL/SQL packages
Suggested Prerequisites:

- Basic knowledge of Linux operating system
Recommended Related Training Courses:

Oracle Database 12c: Install and Upgrade Workshop NEWThis Oracle Database 12c: Install and Upgrade Workshop will provide you with key information to install Oracle Database 12c software. You'll also learn how to create a container database and provision pluggable databases.

Oracle Database 12c: Global Data Services NEWThis Oracle Database 12c: Global Data Services seminar introduces Oracle Database 12c Global Data Services (GDS). You'll learn how to install, configure, administer and use Global Data Services.

Oracle Database 12c: Backup and Recovery Workshop NEWThis Oracle Database 12c: Backup and Recovery Workshop teaches you about backup, restore and recovery scenarios. This course will

help you evaluate your own recovery requirements and develop appropriate strategies for these procedures.

Oracle Database 12c: Managing Multitenant Architecture NEWThis Oracle Database 12c: Managing Multitenant Architecture training will help you understand the multitenant architecture. Learn how to manage an Oracle multitenant container database and any associated pluggable databases in an effective and efficient manner.

Oracle Database 12c: Data Guard Administration NEW

- This Oracle Database 12c: Data Guard Administration Ed 1 training teaches you how to use Oracle Data Guard. Learn how it protects your Oracle database against planned and unplanned downtimes.

Oracle Database 12c: Performance Management and Tuning NEW

- In the Oracle Database 12c: Performance Management and Tuning course, learn about the performance analysis and tuning tasks expected of a DBA.

Indhold:

Introduction

- Course Objectives
- Course Schedule
- Overview of Oracle Database 12c
- Overview of Oracle Cloud
- Overview of the HR Schema

Exploring the Oracle Database Architecture

- Oracle Database Architecture: Overview
- Oracle Database Instance Configurations
- Connecting to the Oracle Database Instance
- Oracle Database Memory Structures
- Process Architecture
- Process Structures
- Process Startup Sequence
- Database Storage Architecture

Managing the Database Instance

- Introducing Oracle Database Management Tools
- Understanding the Enterprise Manager Management Framework
- Logging in to Oracle Enterprise Manager Database Express
- Using the Enterprise Manager Database Express Home Page
- Using Enterprise Manager Cloud Control
- Using SQL*Plus
- Using SQL Developer
- Initialization Parameter Files

Configuring the Oracle Network Environment

- Oracle Net Services Overview
- Oracle Net Listener Overview
- Establishing Oracle Network Connections
- Tools for Configuring and Managing the Oracle Network
- Using the Listener Control Utility
- Using Oracle Net Configuration Assistant
- Using Oracle Net Manager
- Using Enterprise Manager Cloud Control

Managing Database Storage Structures

- Understanding Storage of Data
- Database Block Contents
- Exploring the Storage Structure
- Creating a New Tablespace
- Overview of Tablespaces Created by Default
- Managing Tablespaces
- Viewing Tablespace Information
- Using Oracle Managed Files

Administering User Security

- Database User Accounts
- Predefined Administrative Accounts
- Creating a User
- Authentication
- Unlocking a User Account and Resetting the

Managing Data Concurrency

- Overview of Locks
- Locking Mechanism
- Data Concurrency
- DML Locks
- Enqueue Mechanism
- Lock Conflicts

Managing Undo Data

- Undo Data Overview
- Transactions and Undo Data
- Storing Undo Information
- Comparing Undo Data and Redo Data
- Managing Undo
- Configuring Undo Retention
- Guaranteeing Undo Retention
- Changing an Undo Tablespace to a Fixed Size

Implementing Oracle Database Auditing

- Separation of Responsibilities
- Database Security
- Monitoring for Compliance
- Standard Database Auditing
- Unified Audit Data Trail
- Separation for Duties for Audit Administration (AUDIT_ADMIN and AUDIT_VIEWER roles)
- Configuring the Audit trail
- Specifying Audit Options

Performing Database Maintenance

- Database Maintenance
- Viewing the Alert History
- Terminology
- Automatic Workload Repository (AWR)
- Statistic Levels
- Automatic Database Diagnostic Monitor (ADDM)
- Advisory Framework
- Enterprise Manager and Advisors

Managing Performance

- Performance Monitoring
- Tuning Activities
- Performance Planning
- Instance Tuning
- Performance Tuning Methodology
- Performance Tuning Data
- Monitoring Performance
- Managing Memory

Managing Performance: SQL Tuning

- SQL Tuning
- Oracle Optimizer
- SQL Plan Directives
- Adaptive Execution Plans
- SQL Advisors

Managing Resources by Using Database Resource Manager

- Database Resource Manager Overview
- Database Resource Manager Concepts
- Using the Resource Manager
- Default Maintenance Resource Manager Plan
- Default Plan Example
- Resource Manager Workflow
- Specifying Resource Plan Directives
- Resource Allocation Methods for Resource Plans

Automating Tasks by Using Oracle Scheduler

- Simplifying Management Tasks
- Understanding a Simple Job
- Core Components
- Basic Work Flow
- Persistent Lightweight Jobs
- Using a Time-Based or Event-Based Schedule
- Creating a Time-Based Job
- Creating an Event-Based Schedule

Managing Space

- Space Management Overview
- Block Space Management
- Row Chaining and Migration
- Free Space Management Within Segments
- Types of Segments
- Allocating Extents
- Allocating Space
- Creating Tables Without Segments

Backup and Recovery Concepts

- Categories of Failures
- Flashback Technology
- Understanding Instance Recovery
- Phases of Instance Recovery
- Tuning Instance Recovery
- Using the MTTR Advisor
- Media Failure
- Configuring for Recoverability

Moving Data

- Moving Data: General Architecture
- Oracle Data Pump
- SQL*Loader
- External Tables

Working with Oracle Support

- Using the Support Workbench
- Using Enterprise Manager
- Working with Oracle Support
- My Oracle Support Integration
- Researching an Issue
- Logging Service Requests

- Password
- Privileges
- Roles
- Profiles

- Automatic SQL Tuning Results
- Implement Automatic Tuning Recommendations
- SQL Tuning Advisor

- Managing Patches
- Applying a Patch Release

Flere Informationer:

For yderligere informationer eller booking af kursus, kontakt os på tlf.nr.: 44 88 18 00

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