

ORACLE Database 12c: Administration Workshop (5 Days)

This Oracle Database 12c: Administration Workshop training class teaches the day-to-day administration tasks required of an Oracle database administrator, assists students in preparation for certification as an Oracle Certified Associate (OCA) database administrator, and introduces students to many of the administration sub-specialties that they may wish to pursue next.

This training is appropriate for database administrators, application designers and developers, web server administrators, system administrators, implementation specialists, data center support engineers, chief Information Officers (CIO), and other information technology (IT) management professionals.

This course helps prepare students for the Oracle Database 12c Administrator Certified Associate (OCA) certification and for Exam: 1Z0-062: Oracle Database 12c: Installation And Administration.

Course Topics

- 1. Learn to manage the database instance.
- 2. Learn about database architecture.
- 3. Learn to manage database services.
- 4. Learn to work with the oracle network environment.
- 5. Learn about diagnostics and support.
- 6. Learn to manage tablespaces.
- 7. Learn about data file and temp file management techniques.
- 8. Learn to manage security and privileges.

Course Outline

Introduction: Managing the Database Instance

The Database Management Tools EM Database Express EM Cloud Control SQL Developer Database Administration Duties

Introduction: Database Architecture Review

Database Instance Configurations Memory Structures Process Structures Storage Architecture

Introduction: Starting and Stopping Database Services

Start and Stop The Database Listener About Database Startup/Shutdown SYSOPER SYSDBA Database State and Stages Startup with EM Cloud Control Startup with SQL*PLUS Shutdown with EM Cloud Control Shutdown with SQL*PLUS Using MS Windows Services

Introduction: Oracle Network Environment

Oracle NET Services Architecture Oracle NET Configuration Assistant Oracle NET Manager Using EM Cloud Control Advanced Network Compression Troubleshooting Network Problems

Introduction: Diagnostics and Oracle Support

About Database Diagnostics Fault Diagnosability Infrastructure Database Instance Health Snapshot The Support Workbench Proactive Database Health Checks Package Diagnostic Data Working with The Knowledge Base

Storage: Tablespace Management

Starter Tablespaces Create Tablespace with EM CC Create Tablespace with SQL Manage Tablespaces with EM CC Manage Tablespaces with EM DE Manage Tablespaces with SQL DROP Tablespace ALTER Tablespace

Storage: Advanced Tablespace Management

Managing Temporary Tablespaces Temp Tablespace Groups with EM Temp Tablespace Groups with SQL Default Permanent Tablespaces Bigfile Tablespaces Managing The SYSAUX Tablespace

Storage: Data Files and Temp Files Management

Manage Data Files with EM Access Metadata with SQL Manage Data Files with SQL Manage Temp Files Oracle-Managed Files (OMF)

Storage: Undo Data and Undo Tablespaces

About Undo Space Management Configure Undo Management Guarantee Undo Retention Monitor Undo Space with SQL Use The EM Undo Advisor

Security and Schemas: Security Overview and Database Privileges

Database Security Principles Database System Privileges Database Object Privileges Super Administrator Roles Privilege Analysis

Security and Schemas: User Security

Create and Manage User Accounts Manage Users with EM Manage Users with SQL CREATE User ALTER User DROP User Grant and Revoke Privileges Resource Limits Via Profiles ALTER Profile DROP Profile Password Management Via Profiles Role-Based Security Management Alter User...Default Role Set Role Delegating Privilege Authorization with Admin Option and System Privileges with Grant Option and Object Privileges Principle Of Least Privilege Checklist

Security and Schemas: Database Auditing

Auditing Database Activity Traditional Auditing Unified Auditing Create Audit Policy

Security and Schemas: SQL Loader

Loader Concepts Loader From The Command Line Control File Options Load Methods Loader Express Mode Loader From EM

Security and Schemas: Export and Import

Manage Directory Objects The Data Pump Architecture Data Pump Export Data Pump Import Data Pump Dictionary Views Using The EM Cc Interface

Performance and Availability: Managing Performance and SQL Tuning

Management Advisory Framework Performance Monitoring and AWR The SQL Tuning Advisor Monitoring Exceptions with Metrics

Performance and Availability: Data Concurrency

About System and User Locks Monitor and Manage User Locks Monitor Locks with Data Dictionary Manage Locks with EM

Performance and Availability: Backup and Recovery Concepts

Backup and Recovery Structures Managing Redo Data Configuring for Recoverability Instance Recovery Recoverability Checklist

Class Prerequisites

Experience in the following *is required* for this Oracle class:

- SQL fundamentals.
- Install, architecture and internals experience.