

Oracle 12c DBA course on Unix platforms

1. Administrative features for Oracle 12c Database

- Overview of Oracle Database 12c
- Exploring the Oracle Database 12c Architecture
- Oracle Database Architecture: Overview
- Oracle Database Instance Configurations
- Connecting to the Oracle Database Instance
- Oracle Database Memory Structures
- Process Architecture for Oracle Database 12c
- Process Structures
- Process Startup Sequence
- Database Storage Architecture
- Managing the Database Instance
- Initialization Parameter Files

2. 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

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- Creating a New Tablespace
- Overview of Tablespaces Created by Default
- Managing Tablespaces
- Viewing Tablespace Information
- Using Oracle Managed Files

3. Security features for Oracle 12c Databases

- Administering User Security
- Database User Accounts
- Predefined Administrative Accounts
- Creating a User
- Authentication
- Unlocking a User Account and Resetting the Password
- Privileges
- Roles
- Profiles
- 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



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4. 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

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5. Tuning Activities for Oracle 12c Database

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

6. 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

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- Free Space Management Within Segments
- Types of Segments
- Allocating Extents
- Allocating Space
- Creating Tables Without Segments

7. Backup and Recovery Concepts for Oracle 12c Databases

- 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
- Applying patches in Oracle 12c Databases

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