

ORACLE DBA - Course Content

Oracle Database 11gR2 Training Course Content

What is Database?

- Popular database management system (DBMS) software and why Oracle DBMS.
- History and Current trends of DBMS and Database Administration.
- Oracle database market share and about its current competitive landscape.
- Tasks of a Database Administrator.

Installing Oracle Database Software

- Designing a relational database using Entity-Relationship Modeling.
- Understand pre-requisites for a successful Oracle RDBMS software installation.
- Installation of Oracle 11gR2 database software on OEL 6
- Installation of Oracle 12c database software (Latest Release) on OEL 6.

Oracle Database Architecture

- Planning for an Oracle database creation.
- Creating an Oracle database using the MANUAL method .
- Creating an Oracle database using the Graphical Tool (Database Configuration Assistant).
- Startup and Shutdown of a database.
- Components of an Oracle database and detailed architecture.
- Advance Startup and Shutdown Scenarios.
- In detail explanation about Oracle Database File System
- Oracle database memory and process architecture.
- In detail explanation about System Global Area and its components
- In detail explanation about Oracle Background Processes

- In detail explanation about How Database Works when its processing data

Tablespace Management & Database Storage

- Tablespaces and allocation types
- Create tablespaces.
- Create datafiles with fixed size and autoextend option.
- Control files and producing a trace output to view its contents.
- How to rename datafiles in a controlfile.
- Redolog File architecture and best practices.
- Enabling Archivelog mode for a database with automatic archiving.
- Temporary tablespaces and temporary tablespace groups (11g R2 new feature).

Online Redo-Log Management

- What Is the Redo Log?
- Planning the Redo Log
- Creating Redo Log Groups and Members
- Relocating and Renaming Redo Log Members
- Dropping Redo Log Groups and Members
- Forcing Log Switches
- Verifying Blocks in Redo Log Files
- Clearing a Redo Log File
- Viewing Redo Log Information
- Resizing Online RedoLogs

Undo Management

- What Is Undo?
- Introduction to Automatic Undo Management
- Setting the Minimum Undo Retention Period
- Sizing a Fixed-Size Undo Tablespace
- Managing Undo Tablespaces
- Migrating to Automatic Undo Management

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- Undo Space Data Dictionary Views

SPFile/PFile Management

- What Is a Server Parameter File?
- Migrating to a Server Parameter File
- Creating a Server Parameter File
- Storing the Server Parameter File on HARD-Enabled Storage
- The SPFILE Initialization Parameter
- Changing Initialization Parameter Values
- Clearing Initialization Parameter Values
- Exporting the Server Parameter File
- Backing Up the Server Parameter File
- Recovering a Lost or Damaged Server Parameter File
- Viewing Parameter Settings

Control File Management

- What Is a Control File?
- Guidelines for Control Files
- Creating Control Files
- Troubleshooting After Creating Control Files
- Backing Up Control Files
- Recovering a Control File Using a Current Copy
- Dropping Control Files
- Displaying Control File Information

Archivelog Management

- What Is the Archived Redo Log?
- Choosing Between NOARCHIVELOG and ARCHIVELOG Mode
- Controlling Archiving
- Specifying Archiving Destinations
- About Log Transmission Modes
- Managing Archive Destination Failure
- Controlling Trace Output Generated by the Archivelog Process
- Viewing Information About the Archived Redo Log

Oracle Networking

- Introduction.
- Oracle listener configuration (Dynamic and Static Listeners).
- Dynamic Service Registration and Naming Methods configuration in sqlnet.ora.
- Oracle database connections from other computers.
- Using Oracle netca (Network Configuration Assistant) for network configuration file tnsnames.ora.
- Oracle listener administration and TNS_ADMIN environment variable.
- Database Links

User Administration and Security

- How to create database users.
- How to set database profile limits for a user for efficient resource management.
- Unlocking a user account and enabling password management.
- Oracle database authorization using object and system privileges
- Oracle database authorization using database roles
- How to audit Oracle database connections in standard and XML mode.
- How to audit Oracle DBA commands (SYS Operations).
- How to schedule Oracle database jobs using DBMS_SCHEDULER package.
- Oracle DataPump
- What Is Data Pump Import?
- Invoking Data Pump Import
- Parameters Available in Import's Command-Line Mode
- Commands Available in Import's Interactive-Command Mode
- Examples of Using Data Pump Import

User Managed (MANUAL) Backup and Recovery

- Introduction and planning for a robust Backup and Recovery Strategy.
- How to take an Oracle database backup in

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offline mode (COLD BACKUP).

- Hot to take an Oracle database backup in online mode (HOT BACKUP).
- How to clone a database using Cold Backup.
- How to clone a database using Hot Backup.
- How to recreate source database from a user-managed backup (Media failure scenario)

RMAN Backup and Recovery

- Advantages of RMAN method compared to manual method.
- Database backup using RMAN in normal and compressed mode.
- Oracle database backup metadata.
- Database backup using RMAN catalog.
- Querying the RMAN metadata.
- How to clone a database using RMAN duplicate (11g R2 new feature: Backup based duplication).
- How to restore and recover a database using its backup in the event of a media failure.
- Oracle database backup retention policies and backups to Tape/offsite.
- Fast Recovery Area for better management of backups and archive log files.

Cloning Oracle Database

- Overview of Cloning Methods
- Cloning an Oracle Database Using Recovery Manager (RMAN) Backup
- Cloning an Oracle Database Using Staging Areas
- Cloning an Oracle Database Using an Existing Backup

Dataguard Setup

Oracle Database Patches

- Introduction to Oracle versions and how to understand a version.
- What are one-off/interim patches.
- Learn about Oracle Interim Patch Installer (OPATCH).

SOME OF TRAININGS HIGHLIGHTS :

- Real time support.
- 100% placement assistance
- Discussion of interview questions
- Complete Real time oriented training
- Dealing the topics which are very advanced in the industry
- Making a candidate 100% job ready.

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