

ORACLE DBA SYLLABUS

Hi Folks,

Oranium Tech introducing some amazing content on Oracle DBA. Are you planning to Kick-start your career in the Database Platform? Seeking for the best training where you can impart required skill sets? Join Oracle DBA Training in Chennai at Oranium Tech and gain the expert knowledge that is required for a professional Oracle Database Administrator Developer under the mentorship of industry leaders. The Oracle DBA Training program at Oranium Tech enables you to get acquainted with how to set up, configure, and administer the Oracle Database and how to develop a recovery and backup strategy of the Databases like a Pro.

1) Getting started with DBMS and RDBMS

- What is a Database?
- What is the Relation Database?
- Oracle RDBMS Vs. Other Popular RDBMS
- Becoming Familiar with Database Administration
- The need to Administer a Database
- Getting to know about Database Administrators (DBA)
- DBA Roles and Responsibilities

2) Get acquainted with Oracle Database Architecture

- Oracle Database Server Architecture
- Oracle DB Configurations & Instance
- Connecting the DB Instance
- Memory Structures
- Sharing of Buffers and Pool
- Understanding The System Global Area (SGA)
- Understanding the Program Global Area (PGA)
- In-Memory caching of the Database
- Process Structures and Architectures
- Oracle Database Logs
- Oracle Process – SMON, RECO, PMON, LGWR, CKPT, ARCn, and LREG
- Storage Architecture

- Physical and Logical Structure of the Oracle Database
- Multitenant Architecture
- TableSpaces

3) Handling the Oracle Database

- Getting to know the Oracle Management Tools
- Learning the SQL* Plus
- SQL Scripts
- SQL Developer
- Oracle Enterprise Manager
- Configurations and Logging of the Oracle Enterprise Manager
- Options and Menus of the Oracle Enterprise Manager
- Cloud Control Framework

4) Handle the Oracle Database Instance

- Get started with the Initialization Files
- Parameters of the Initialization Files
- Changing and Viewing of the Initialization Parameters
- Starting up the Oracle Database Instance with Various Options and Parameters
- Shutdown Options and Modes
- Trace Files
- Alert Files
- Debug Log Files
- DDL Files
- Oracle Dynamic Performance Views
- Oracle Dynamic Performance Considerations
- Introduction to Oracle Data Dictionary

5) Oracle Network Configuration and Environment

- Outline of the Oracle Net Services
- Outline of the Oracle Net Listener
- Connecting the Oracle Database
- Naming Methods
- User Sessions
- Handling the Oracle Net Services
- Advanced Connection Options
- Shared Server Processes
- Dedicated Server Processes

- Use of PGA and SGA
- Communication Between Databases

6) Administering User Security

- User Accounts
- Predefined Administrative Accounts
- Securing Privileged Accounts
- Administrative Privileges
- Users Authentication
- Administrator Authentication
- OS Authentication
- OS Groups Authentication
- Manage and Create User Accounts
- Handle the Privileges with the Grant and Admin option
- Manage and Create Roles
- User Quotas
- Password Security Features

7) Manage and Administer the Oracle Database Storage Structures

- Table Data storage Architecture
- Table Space
- Manage the Table Space - Create, Drop, Alter, and Dropping TableSpace
- Oracle Managed Files

8) Handle the Oracle Database Space

- Getting to know the Space Management
- Manage the Row Chaining, Block Space and Migration
- Segments
- Extents
- Exceptions and Restrictions
- Outline of Table Compression
- Different Compression Implementation with the DBMS_Compression Package
- Handle the Table usage and Resolve the Space problems

9) Handle the Data Concurrency

- Objectives of the Data Concurrency
- Locking Data
- Locking Mechanism

- Lock Conflicts
- Lock Resolution
- Deadlocks
- Data Concurrency

10) Oracle Database Auditing

- Significance of Database Security
- Database Compliances
- Outline of Database Auditing
- Audit Architecture
- Audit Configuration
- Create and Handle the Audit Policy
- Kinds of Auditing - Fine-Grained, Value-Based
- Audit Trail

11) Oracle Database: Recovery and Backup

- Archiver Process
- Archive log Mode
- Oracle Backup solutions
- User - Manages and Secure Backups
- Kinds of Backups
- Backup Terminologies
- Settings and Backing Configuration
- Managing Backups
- Backup Strategies
- Keeping a Database Open for Recovery
- Managing Loss of Various Log Files Database Failures
- Categories and kinds of Database failures
- Database Recovery
- Types and Phases of Recovery
- Instance Failure
- Managing Media Failure
- Complete Recovery
- Incomplete Recovery
- Configuration for Recovery
- Data Protection Solutions by Oracle
- Redo Log Files

12) Migration of Data

- Common Architecture of Moving Data
- Getting to know the Oracle Data Benefits and Pump
- Handle and Create Directory Objects
- Outline of the SQL Control Files and SQL Loader
- Different Loading Methods
- Handling and Using the External Tables with the Oracle -Datapump and Oracle – Loader

13) Handling the Oracle Database Performance

- Importance of the Performance
- Planning the Performance of the Database and Monitoring it
- Performance Tuning using the Enterprise Manager Database
- Monitoring and Managing Sessions Performance with the Session -Related Statistics
- Handling and Monitoring the Services with the Service-Related Statistics
- Handle the Memory Performance
- Oracle Automatic Memory Management
- Handle the Performance with the SQL Tuning
- Get to know the Oracle Optimizer
- Understand the Optimizer Statistics
- SQL Plan Directives
- Adaptive Execution Plans
- SQL Performance Analyzer
- SQL Performance usage

14) Handle the Database Resource Manager

- Concepts and Outline of the Database Resource Manager
- Creation of Resource Plan
- Utilization of CPU
- Monitoring Resource Manager
- Resource Manager Statistics
- Oracle Scheduler
- Getting to know the Oracle Scheduler for Automate Tasks
- Core Components of the Oracle Scheduler
- Event-Based Schedules
- Time-Based Schedules
- Manage and Create Complex Schedules
- Handle and Create Job Array & Job Chain
- Handle and Schedule Remote Database Jobs

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