

# Oracle DBA

## Description

Ardent's Oracle DBA instructor led training course is designed to give a firm foundation on Oracle which will cover SQL and DBA concepts which are required to create database, create TableSpace, Role & Privileges, Auditing, DataPump, Backup, Recovery, etc. and also gives idea about Performance Tuning.

## Expectations and Goals

After the completion of the Oracle DBA Course at Ardent, you should be able to:

- SQL Command
- Architecture of Oracle & functionalities of Background Processes
- Creation of Database, Creation of Tablespace ,Handling Data files
- Use creation, Password Management
- Create Role and Privileges
- Auditing
- Datapump, Export & Import Data
- Storing Data From Flat file to database using SQL Loader
- Client Server Configuration
- Backup using User Managed and RMAN
- Handling Several Recovery Issues such as Loss of Datafile, RedologFile
- Performance Tuning
- Case Studies

## Prerequisites

Basic Programming Knowledge.

## Course Schedule

Module	Topic
<b>Module 1</b>	<b>Introduction to DBMS&amp; RDBMS</b> Concept of DBMS Concept Of RDBMS Normalization Role of DBA Role of Developer
<b>Module 2</b>	<b>Basic SQL Construct</b> Arithmetic Operation and Expressions Importance of NULL values and Concatenate operators Column naming conventions Restricting and Sorting Data Applying where and order by clauses Pattern matching using LIKE IN Operator Logical AND, OR and NOT operators Between and Not Between conditions
<b>Module 3</b>	<b>Data Definition Language (DDL)</b> Create Alter Rename Truncate Drop Purge

	<p>Data Manipulation Language (DML)</p> <p>Inserting rows</p> <p>Updating rows</p> <p>Deleting rows</p> <p>Merge Statement</p>
<b>Module 4</b>	<p><b>Architecture Of Oracle</b></p> <p>Components of Oracle Server</p> <p>Instance</p> <p>SGA</p> <p>Background Processes</p> <p>Data Files</p> <p>Redolog Files</p> <p>Control Files</p> <p>Installation of Oracle</p> <p>Different mode of Startup database</p> <p>Different types of Shutdown the database</p>
<b>Module 5</b>	<p><b>PasswordManagement, UserCreation, Roles, Privileges &amp; Auditing</b></p> <p>Profile Management</p> <p>Concept of Privileges</p> <p>Concept of Roles</p> <p>User Creation and Assigning Profile and Roles</p> <p>Need of Auditing</p> <p>Normal Auditing</p>
<b>Module 6</b>	<p><b>Datapump</b></p> <p>Concept of datapump</p> <p>Datapump on Table Level</p> <p>Datapump on User Level</p> <p>Datapump on Database Level</p> <p>Export</p> <p>Import</p>
<b>Module 7</b>	<p><b>Backup of Database</b></p> <p>Concept of Hot Backup</p> <p>Concept of Cold Backup</p> <p>User Managed backup</p> <p>RMAN</p> <p>Recovery</p> <p>Complete Recovery and Incomplete Recovery.</p> <p>Backup and Restore by means of RMAN</p>
<b>Module 8</b>	<p><b>Case Studies</b></p> <p>Scenario of Recovery: Loss of Data files, Loss of Redo log files, etc.</p>
<b>Module 9</b>	<p><b>Performance Tuning</b></p> <p>Indexing</p> <p>Cache Table</p> <p>Materialized View</p> <p>Partitioned Table</p>
<b>Module 10</b>	<b>Client Server Implementation</b>
<b>Module 11</b>	Project work and documentation