



Oracle Database Administration

Introduction :

- 9 Oracle Database & Instance, Physical & Logical structures
- 10 Database Architecture : Arch – 0, Arch – 1
- 11 DB Creation, Startup and Shutdown options

Tablespace Management:

- 10 Tablespace , Storage (Segment , Extent , Block) & Data file Management. Temporary Ts Management,

User Management :

- 11 User Management, Profile, Roles & Ts-Quota Management , Password file Management

Archive log and Control file Management :

- 13 Redo logs & Archive logs Management, Control file Management & Control file Sections

Undo Management:

- 18 Automatic undo Management , Rollback Segments, Undo Segment Status, Undo Retention & Flash Back Query
- 19 Introduction to **Oracle Networking** (Configuring Tnsnames & Listener files), Public / Private database links & Materialized Views.

- 20 **Logical Backups** : Exp / imp & Data Pumps
- 21 Physical Backups : Cold & Hot Backups
- 22 DB Recovery scenarios : 1-4
- 23 DB Recovery Scenarios : 5-8

RMAN : Recovery Manager :

- RMAN backups, Script & RMAN commands, Incremental & Cumulative Backups
- Object point in time Recovery, RMAN TSPITR
- **Flashback Database**, LogMiner, Transportable Tablespace
- Database / Table Re-organization, Row Chaining & Row Migration
- Sql Loader, DB Auditing

Performance Tuning:

- I/O Tuning : Tablespace Striping , Parallel Query Option
- Database Tuning : Partitioning & Sub- Partitioning , Indexing & Types of Indexes , Index – Organized tables.
- Explain plan & SQL Trace
- Network Tuning : Configuring MTS, Pro-Active
- Resumable space Management
- Statpack, AWR, ASH, ADDM Reports
- Oracle wait events, SQL Hints
- Database cloning, Init file & Spfile management , Replication
- Sql Profile and Sql Baseline.

Data Guard:

- Data guard configuration, Fail over & switch overs between Standby Databases
- **Oracle 19c new features.**
- Introduction to Oracle Real Application Clusters (RAC)