



RUSHIL TECHNOLOGIES

A unit of

Krishko telecom services pvt.ltd
An ISO 9001:2008 certified company

ORACLE 10G COURSE CONTENT

1. Introduction:

- ✓ Identify the oracle product
- ✓ Describe the basic concept of a relational database

2. Installing oracle database 10g software:

- ✓ System requirements.
- ✓ Use Oracle Optimal Flexible Architecture (OFA)

3. Create an oracle database:

- ✓ Oracle Database Architecture.
- ✓ Oracle instance architecture.
- ✓ Use the management framework.
- ✓ Use the Database Creation Assistant.

4. Controlling the database:

- ✓ Start and stop the agent
- ✓ Start and stop the enterprise manager database console
- ✓ Start and stop the listener
- ✓ Startup and shutdown the database

5. Storage Structures

- ✓ Defining the table spaces and data files
- ✓ Create table spaces
- ✓ Manage table spaces
- ✓ Obtain table space information
- ✓ Create and manage table space using oracle enterprises manager.



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6. Administering users:

- ✓ Create and manage database user accounts
- ✓ Create and manage roles

- ✓ Grant and revoke privileges
- ✓ Control resource usage by users.

7. Managing schema objects

- ✓ Define constraints
- ✓ View the contents of a table
- ✓ Create indexes and views
- ✓ Create indexes and views

8. Managing Data

- ✓ Manipulating data through SQL
- ✓ Using Import
- ✓ Using Export
- ✓ Using SQL Loader

9. PL/SQL

- ✓ Identify PL/SQL objects
- ✓ Understand triggers and triggering events
- ✓ Identify configuration options that affect PL/SQL performance



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10. Oracle Database Security

- ✓ Apply the principal of least privilege
- ✓ Manage default user accounts
- ✓ Implement standard password security features
- ✓ Audit database activity

11. Oracle Net Services

- ✓ Understand Oracle Net concepts
- ✓ Use Oracle Net Manager to create and configure listeners
- ✓ Use the listener control utility to control the Oracle Net Listener
- ✓ Use the Oracle Net Manager to configure client and middle-tier connection
- ✓ Use TNSPING to test Oracle Net connectivity

12. Oracle Shared Server

- ✓ Understand when to use Oracle Shared Servers
- ✓ Configure Oracle Shared Servers
- ✓ Monitoring Shared Servers

13. Performance Monitoring

- ✓ Troubleshoot invalid and unusable objects
- ✓ Gather optimizer statistics
- ✓ View performance metrics
- ✓ React to performance issues

14. Proactive Maintenance: Objectives

- ✓ Set warning and critical alert thresholds
- ✓ Collect and use baseline metrics
- ✓ Use tuning and diagnostic advisors
- ✓ Use the Automatic Database Diagnostic Monitor (ADDM)
- ✓ Manage the Automatic Workload Repository



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15. Undo Management

- ✓ Monitor and administer undo
- ✓ Configure undo retention
- ✓ Guarantee undo retention
- ✓ Use the undo advisor

16. Monitoring and Resolving Lock Conflicts

- ✓ Detect and resolve lock conflicts
- ✓ Manage deadlocks

17. Backup and Recovery

- ✓ Describe the basics of database backup, restore and recovery
- ✓ List the types of failure that may occur in an Oracle Database
- ✓ Describe ways to tune instance recovery
- ✓ Identify the importance of checkpoints, redo log files, and archived log file
- ✓ Configure ARCHIVELOG mode

18. Database backups

- ✓ Create consistent database backups
- ✓ Back your database up without shutting it down
- ✓ Create incremental backups
- ✓ Automate database backups
- ✓ Monitor the flash recovery area

19. Database Recovery

- ✓ Recover from loss of a control file
- ✓ Recover from loss of a redo log file
- ✓ Recover from loss of a data file



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20. Using Globalization Support

- ✓ Date times with Time zones
- ✓ Specifying Language-Dependent Behavior
- ✓ Locale Variants
- ✓ Linguistic Sorting
- ✓ Case and Accent Insensitive Sorts
- ✓ Linguistic Comparisons
- ✓ Obtaining Information about the Current NLS Configuration

21. Diagnostic Sources

- ✓ The Alert Log
- ✓ Viewing Alerts with EM
- ✓ Alerts Notification
- ✓ Editing Thresholds
- ✓ Trace Files

22. Recovering from non-critical losses

- ✓ Creating New Temporary Table space
- ✓ Recreating Redo Log Files
- ✓ Recovering an Index Table space
- ✓ Read-Only Table space Recovery
- ✓ Loss of Password Authentication File

23. Automatic Storage Management

- ✓ ASM Concepts
- ✓ ASM General Architecture
- ✓ Creating an ASM instance
- ✓ Creating table spaces that use ASM storage
- ✓ Viewing ASM information
- ✓ Migrating a table space to use ASM storage.



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24. Flashback database

- ✓ When to Use Flashback Technology
- ✓ Configuring Flashback Database
- ✓ Monitoring Flashback Database
- ✓ Best Practices for the Database and Flash Recovery Area
- ✓ Flash Recovery Area Space Usage
- ✓ Flashback Database Examples

25. Monitoring and Managing Memory

- ✓ Using Automatic Shared Memory Management to avoid long running query issues
- ✓ Oracle Memory Structures
- ✓ Automatic PGA Memory Management
- ✓ Using the Memory Advisor

26. Automatic Database Management

- ✓ Automatic Optimizer Statistics Collection
- ✓ Workload Repository
- ✓ Database Control and Advisors
- ✓ Using the SQL Tuning Advisor
- ✓ Using the SQL Access Advisor
- ✓ Automatic Undo Retention Tuning

27 Monitoring and Managing Storage

- ✓ Redo Log file Size Advisor
- ✓ Resumable Statements
- ✓ Table space Space Usage Monitoring
- ✓ Accessing the Segment Advisor
- ✓ Shrinking Segments Using SQL
- ✓ Segment Resource Estimation
- ✓ Monitoring Index Space
- ✓ Identifying Unused Indexes

