

| Oracle Database Administration – 5 days | | ORACLE® |
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| <p>Course Objectives</p> <ul style="list-style-type: none"> • Manage tablespaces, segments, extents, and blocks • Manage users, privileges, and resources • Create an operational database • Start up and shut down an Oracle instance and database • Manage Oracle database files • Use Globalization Support features <p>Oracle Architectural Components</p> <ul style="list-style-type: none"> • Defining an Oracle Database, the Oracle server, and the Oracle Instance • Establishing a connection and creating a session • Understanding the physical structure • Understanding the memory structure • Understanding the process structure • Understanding the logical structure • Outlining the stages of an SQL statement <p>Getting Started with the Oracle Server</p> <ul style="list-style-type: none"> • Identifying database administrative tools <p>Identifying The Features Of The Universal Installer</p> <p>Defining The Optimal Flexible Architecture</p> <p>Creating A Database During Installation</p> <p>Creating A New Database</p> <p>Identifying Database Administrative Users</p> <ul style="list-style-type: none"> • Understanding operating system and password file authentication SQL*Plus • Enterprise Manager | <p>Managing An Oracle Instance</p> <ul style="list-style-type: none"> • Creating, managing, and using initialization files: PFILE and SPFILE • Identifying the various states of starting an instance • Identifying the various options available to shutdown an instance Monitoring Alert and Trace files <p>Creating a database</p> <ul style="list-style-type: none"> • Using the Database Configuration Assistant to create a database • Creating a database manually <p>Using The Data Dictionary</p> <ul style="list-style-type: none"> • Identifying the uses and contents of the data dictionary • Using the data dictionary to retrieve information about the database <p>Maintaining The Control File</p> <ul style="list-style-type: none"> • Explaining the uses of the control file • Listing the contents of the control file • Multiplexing the control file • Managing control file with Oracle Managed Files (OMF) • Obtaining control file information <p>Maintaining Redo Log Files</p> <ul style="list-style-type: none"> • Explaining the purpose of and how online redo log files work • Control log switches and checkpoint • Maintaining online redo log files • Managing online redo log files using OMF • Multiplexing and maintaining online redo log files • Archiving online redo log files • Obtaining online and archived redo log file information <p>Managing Tablespaces And Datafiles</p> <p>Describing Storage Hierarchy</p> | |

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Establishing The Difference Between SYSTEM And Non-SYSTEM Tablespaces

- Creating and managing tablespaces
- Creating a tablespace when using OMF
- Obtaining tablespace and datafile information

Storage Structures And Relationships

- Describing the logical structure of the database (segments, extents, blocks)
- Listing the segment types and their uses
- Understanding the use of extents and their allocation and deallocation
- Understanding the structure of a database block
- Maintaining storage structures with automatic segment - space management
- Maintaining storage structures manually
- Obtaining storage structure information

Managing Undo Data

Understanding The Difference Between Automatic Undo Management And Manual Undo Management

Creating And Maintaing Undo Tablespaces

- Obtain undo information

Managing Tables

- Creating and maintaining tables using appropriate storage settings
- Obtaining table information

Managing Indexes

- Listing the different types of indexes and their uses
- Creating a b-tree and bitmap indexes
- Maintaining Indexes

Identifying Unused Indexes

- Obtaining index information