

VERSION

20

CRASH COURSE

SR. CODE

EAPL/CRASH/CRTC19

COURSE CODE

EACDB

SUB CATEGORY

DATABASE MANAGEMENT


TOTAL DURATION
45
HOURS


THEORY TAKEN
15
HOURS


PRACTICAL TAKEN
30
HOURS

ELYSIUM
ACADEMY

MASTER
IN ORACLE
DBA

**ELYSIUM
ACADEMY**

**MASTER
IN ORACLE
DBA**

ELYSIUM
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MASTER
IN ORACLE
DBA

COURSE DESCRIPTION



The Oracle Database DBA course is a comprehensive training program that teaches students the skills and knowledge necessary to become a database administrator (DBA) for Oracle databases. DBAs are responsible for the day-to-day operation and maintenance of Oracle databases, including tasks such as installing and configuring databases, managing user accounts, creating and managing tables and indexes, and performing backups and restores.

COURSE GOALS



- Learn the basics of Oracle database administration
- Gain hands-on experience with Oracle tools and utilities
- Develop a deep understanding of Oracle database concepts
- Become proficient in Oracle database security
- Learn how to perform database backups and recovery
- Become proficient in monitoring and troubleshooting database performance
- Learn how to optimize database performance

FUTURE SCOPE



- The Oracle Database project is growing rapidly.
- Many large telecommunications, financial and industrial companies use Oracle databases.
- Oracle databases can be found in almost every industry because almost every business needs some form of database management.

Basic Database Administration

01

CHAPTER

GETTING STARTED WITH DATABASE ADMINISTRATION

1. Types of Oracle Database Users
2. Tasks of a Database Administrator
3. SQL Statements
4. Identifying Your Oracle Database Software Release
5. About Database Administrator Security and Privileges
6. Database Administrator Authentication
7. Creating and Maintaining a Database Password File
8. Data Utilities



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02

CHAPTER

CREATING AND CONFIGURING AN ORACLE DATABASE

1. About Creating an Oracle Database
2. Considerations Before Creating the Database
3. Creating a Database with DBCA
4. Creating a Database with the CREATE DATABASE Statement
5. Specifying CREATE DATABASE Statement Clauses
6. Specifying Initialization Parameters



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7. Managing Initialization Parameters Using a Server Parameter File
8. Managing Application Workloads with Database Services
9. Managing Standard Edition High Availability for Oracle Databases
10. Considerations After Creating a Database
11. Cloning a Database
12. Dropping a Database
13. Database Data Dictionary Views
14. Database Configuration Assistant Command Reference for Silent Mode

03

CHAPTER

STARTING UP AND SHUTTING DOWN

1. Starting Up a Database
2. Altering Database Availability
3. Shutting Down a Database
4. Quiescing a Database
5. Suspending and Resuming a Database
6. Delaying Instance Abort



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CHAPTER

CONFIGURING AUTOMATIC RESTART OF AN ORACLE DATABASE

1. About Oracle Restart
2. Configuring Oracle Restart
3. Starting and Stopping Components Managed by Oracle Restart
4. Stopping and Restarting Oracle Restart for Maintenance Operations
5. SRVCTL Command Reference for Oracle Restart
6. CRSCTL Command Reference



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CHAPTER

MANAGING PROCESSES

1. About Dedicated and Shared Server Processes
2. About Proxy Resident Connection Pooling
3. Configuring Oracle Database for Shared Server
4. Configuring Database Resident Connection Pooling
5. About Oracle Database Background Processes
6. Managing Pre spawned Processes
7. Managing Processes for Parallel SQL Execution



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8. Managing Processes for External Procedures
9. Terminating Sessions
10. Process and Session Data Dictionary Views

06

CHAPTER

MANAGING MEMORY

1. About Memory Management
2. Memory Architecture Overview
3. Using Automatic Memory Management
4. Configuring Memory Manually
5. Using Force Full Database Caching Mode
6. Configuring Database Smart Flash Cache
7. Improving Query Performance with Oracle Database In-Memory
8. Enabling High Performance Data Streaming with the Memoptimized Rowstore
9. Memory Management Reference



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CHAPTER

MANAGING USERS & SECURING THE DATABASE

1. The Importance of Establishing a Security Policy for Your Database
2. Managing Users and Resources
3. User Privileges and Roles



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4. Auditing Database Activity
5. Predefined User Accounts

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CHAPTER

MONITORING THE DATABASE

1. Monitoring Errors and Alerts
2. Monitoring Performance
3. Monitoring Quarantined Objects



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09

CHAPTER

DIAGNOSING AND RESOLVING PROBLEMS

1. About the Oracle Database Fault Diagnosability Infrastructure
2. About Investigating, Reporting & Resolving a Problem
3. Diagnosing Problems
4. Reporting Problems
5. Resolving Problems



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Oracle Database Structure and Storage

10

CHAPTER

MANAGING CONTROL FILES

1. What Is a Control File?
2. Guidelines for Control Files
3. Creating Control Files
4. Troubleshooting After Creating Control Files
5. Backing Up Control Files
6. Recovering a Control File Using a Current Copy
7. Dropping Control Files
8. Control Files Data Dictionary Views



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CHAPTER

MANAGING THE REDO LOG

1. What Is the Redo Log?
2. Planning the Redo Log
3. Creating Redo Log Groups & Members
4. Relocating and Renaming Redo Log Members
5. Dropping Redo Log Groups and Members
6. Forcing Log Switches
7. Verifying Blocks in Redo Log Files
8. Clearing a Redo Log File



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- 9. Precedence of FORCE LOGGING Settings
- 10. Redo Log Data Dictionary Views

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CHAPTER

MANAGING ARCHIVED REDO LOG FILES

1. What Is the Archived Redo Log?
2. Choosing Between NOARCHIVELOG & ARCHIVELOG Mode
3. Controlling Archiving
4. Specifying Archive Destinations
5. About Log Transmission Modes
6. Managing Archive Destination Failure
7. Controlling Trace Output Generated by the Archivelog Process
8. Viewing Information About the Archived Redo Log



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CHAPTER

MANAGING TABLESPACES

1. Guidelines for Managing Tablespaces
2. Creating Tablespaces
3. Consider Storing Tablespaces in the In-Memory Column Store
4. Specifying Nonstandard Block Sizes for Tablespaces
5. Controlling the Writing of Redo Records



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6. Altering Tablespace Availability
7. Using Read-Only Tablespaces
8. Altering and Maintaining Tablespaces
9. Renaming Tablespaces
10. Dropping Tablespaces
11. Managing Lost Write Protection with Shadow Tablespaces
12. Managing the SYSAUX Tablespace
13. Correcting Problems with Locally Managed Tablespaces
14. Migrating the SYSTEM Tablespace to a Locally Managed Tablespace
15. Viewing Information About Tablespaces

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CHAPTER

MANAGING DATA FILES & TEMP FILES

1. Guidelines for Managing Data Files
2. Creating Data Files & Adding Data Files to a Tablespace
3. Changing Data File Size
4. Altering Data File Availability
5. Renaming and Relocating Data Files
6. Dropping Data Files
7. Verifying Data Blocks in Data Files



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8. Copying Files Using the Database Server
9. Mapping Files to Physical Devices
10. Data Files Data Dictionary Views

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CHAPTER

TRANSPORTING DATA

1. About Transporting Data
2. Transporting Databases
3. Transporting Tablespaces Between Databases
4. Transporting Tables, Partitions, or Subpartitions Between Databases
5. Converting Data Between Platforms
6. Guidelines for Transferring Data Files



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CHAPTER

MANAGING UNDO

1. What Is Undo?
2. Introduction to Automatic Undo Management
3. Setting the Minimum Undo Retention Period
4. Sizing a Fixed-Size Undo Tablespace
5. Managing Undo Tablespaces
6. Migrating to Automatic Undo Management
7. Managing Temporary Undo
8. Undo Space Data Dictionary Views



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CHAPTER

USING ORACLE MANAGED FILES

1. About Oracle Managed Files
2. Enabling the Creation and Use of Oracle Managed Files
3. Creating Oracle Managed Files
4. Operation of Oracle Managed Files
5. Scenarios for Using Oracle Managed Files



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Schema Objects

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CHAPTER

MANAGING SCHEMA OBJECTS

1. Creating Multiple Tables and Views in a Single Operation
2. Analyzing Tables, Indexes & Clusters
3. Truncating Tables and Clusters
4. Enabling and Disabling Triggers
5. Managing Integrity Constraints
6. Renaming Schema Objects
7. Managing Object Dependencies
8. Managing Object Name Resolution
9. Switching to a Different Schema
10. Managing Editions
11. Displaying Information About Schema Objects



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CHAPTER

MANAGING SPACE FOR SCHEMA OBJECTS

1. Managing Tablespace Alerts
2. Managing Resumable Space Allocation
3. Reclaiming Unused Space
4. Dropping Unused Object Storage
5. Understanding Space Usage of Data Types
6. Displaying Information About Space Usage for Schema Objects
7. Capacity Planning for Database Objects



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CHAPTER

MANAGING TABLES

1. About Tables
2. Guidelines for Managing Tables
3. Creating Tables
4. Loading Tables
5. Optimizing the Performance of Bulk Updates
6. Automatically Collecting Statistics on Tables
7. Altering Tables
8. Redefining Tables Online
9. Researching and Reversing Erroneous Table Changes



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- 10. Recovering Tables Using Oracle Flashback Table
- 11. Dropping Tables
- 12. Using Flashback Drop and Managing the Recycle Bin
- 13. Managing Index-Organized Tables
- 14. Managing Partitioned Tables
- 15. Managing External Tables
- 16. Managing Hybrid Partitioned Tables
- 17. Managing Immutable Tables
- 18. Managing Blockchain Tables
- 19. Tables Data Dictionary Views

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