

Oracle Database Administration I



Online Course

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Course Modules

1. Understanding Oracle Database Architecture

- Understanding Oracle Database Instance Configurations
- Understanding Oracle Database Memory and Process Structures
- Understanding Logical and Physical Database Structures
- Understanding Oracle Database Server Architecture

2. Managing Database Instances

- Starting Up Oracle Database Instances
- Using Data Dictionary Views
- Shutting Down Oracle Database Instances
- Using Dynamic Performance Views
- Using the Automatic Diagnostic Repository (ADR)
- Using the Alert Log and Trace Files
- Managing Initialization Parameter Files

3. Managing Users, Roles and Privileges

- Assigning Quotas to Users
- Applying the Principal of Least Privilege
- Creating and Assigning Profiles
- Administering User Authentication Methods
- Managing Oracle Database Users, Privileges, and Roles



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4.Managing Storage

- Managing Resumable Space Allocation
- Shrinking Segments
- Deferring Segment Creation
- Using Space-Saving Features
- Deploying Oracle Database Space Management Features
- Managing Different Types of Segments
- Using Table and Row Compression
- Understanding Block Space Management

5.Moving Data

- Using External Tables
- Using Oracle Data Pump
- Using SQL*Loader

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6.Accessing an Oracle Database with Oracle supplied Tools

- Using the Database Configuration Assistant (DBCA)
- Using Oracle Enterprise Manager Cloud Control
- Using Oracle Enterprise Manager Database Express
- Using SQL Developer
- Using SQL Plus



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7. Configuring Oracle Net Services

- Using Oracle Net Services Administration Tools
- Configuring Communication Between Database Instances
- Configuring the Oracle Net Listener
- Connecting to an Oracle Database Instance
- Comparing Dedicated and Shared Server Configurations
- Administering Naming Methods

8. Managing Tablespaces and Datafiles

- Viewing Tablespace Information
- Creating, Altering and Dropping Tablespaces
- Managing Table Data Storage
- Implementing Oracle Managed Files
- Moving and Renaming Online Data Files

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9. Managing Undo

- Understanding Transactions and Undo Data
- Storing Undo Information
- Configuring Undo Retention
- Comparing Undo Data and Redo Data
- Understanding Temporary Undo



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10. Restricting and Sorting Data

- Applying Rules of precedence for operators in an expression
- Limiting Rows Returned in a SQL Statement
- Using Substitution Variables
- Using the DEFINE and VERIFY commands

11. Using Conversion Functions and Conditional Expressions

- Applying the NVL, NULLIF, and COALESCE functions to data
- Understanding implicit and explicit data type conversion
- Use TO_CHAR, TO_NUMBER, and TO_DATE conversion functns
- Nesting multiple functions

12. Displaying Data from Multiple Tables Using Joins

- Using Self-joins
- Using Various Types of Joins
- Using Non equijoins
- Using OUTER joins



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13. Using SET Operators

- Matching the SELECT statements
- Using the ORDER BY clause in set operations
- Using The INTERSECT operator
- Using The MINUS operator
- Using The UNION and UNION ALL operators

14. Understanding Data Definition Language

- Using Data Definition Language

15. Managing Views

- Managing Views

16. Managing Data in Different Time Zones

- Work with CURRENT_DATE, CURRENT_TIMESTAMP, & LOCAL_TIMESTAMP
- Working with INTERVAL data types

17. Retrieving Data using the SQL SELECT Statement

- Using Column aliases
- Using The DESCRIBE command
- Using The SQL SELECT statement
- Using concatenation operator, literal character strings
- Using Arithmetic expressions & NULL values in the SELECT statement



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18. Using Single-Row Functions to Customize Output

- Manipulating strings with character functions in SQL SELECT
- Performing arithmetic with date data
- Manipulating numbers with the ROUND, TRUNC & MOD fnctns
- Manipulating dates with the date function

19. Reporting Aggregated Data Using Group Functions

- Restricting Group Results
- Creating Groups of Data
- Using Group Functions

20. Using Subqueries to Solve Queries

- Using Single Row Subqueries
- Using Multiple Row Subqueries

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21. Managing Tables using DML statements

- Managing Database Transactions
- Using Data Manipulation Language
- Controlling transactions



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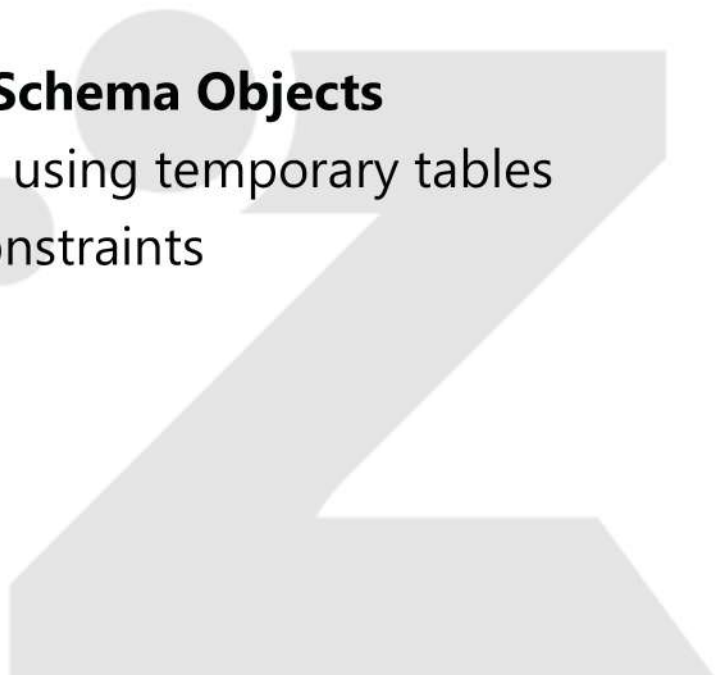
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22. Managing Sequences, Synonyms, Indexes

- Managing Indexes
- Managing Synonyms
- Managing Sequences

23. Managing Schema Objects

- Creating and using temporary tables
- Managing constraints

A large, stylized, light gray 'Z' logo is positioned behind the text. The 'Z' is composed of three main geometric shapes: a large triangle on the left, a horizontal bar in the middle, and another large triangle on the right.

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