

Oracle Database SQL



Online Course

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Course Modules

1. Relational Database concepts

- Explain the theoretical and physical aspects of a relational database
- Relating clauses in SQL Select Statement to Components of an ERD
- Explaining the relationship between a database and SQL

2. Retrieving Data using the SQL SELECT Statement

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

3. 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
- Sorting Data

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4. Using Single-Row Functions to Customize Output

- Manplate strings with chrctr fcnctns in SQL SELECT & WHERE clauses
- Performing arithmetic with date data
- Manipulating numbers with the ROUND, TRUNC and MOD functns
- Manipulating dates with the date function

5. Using Conversion Functions and Conditional Expressions

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

6. Reporting Aggregated Data Using Group Functions

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

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7. Displaying Data from Multiple Tables

- Using Self-joins
- Using Various Types of Joins
- Using Non equijoins
- Using OUTER joins
- Understanding and Using Cartesian Products



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8. Using Subqueries to Solve Queries

- Using Single Row Subqueries
- Using Multiple Row Subqueries
- Update and delete rows using correlated subqueries

9. Using SET Operators

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- 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

10. Managing Tables using DML statements

- Managing Database Transactions
- Controlling transactions
- Perform Insert, Update and Delete operations
- Performing multi table Inserts
- Performing Merge statements

11. Managing Indexes Synonyms and Sequences

- Managing Indexes
- Managing Synonyms
- Managing Sequences



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12. Use DDL to manage tables and their relationships

- Describing and Working with Tables
- Describing and Working with Columns and Data Types
- Creating tables
- Truncating tables
- Creating and using Temporary Tables
- Creating and using external tables
- Managing Constraints

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13. Managing Views

- Managing Views

14. Controlling User Access

- Differentiating system privileges from object privileges
- Granting privileges on tables
- Distinguishing between granting privileges and roles

15. Managing Objects with Data Dictionary Views

- Using data dictionary views

16. Managing Data in Different Time Zones

- CURRENT_DATE, CURRENT_TIMESTAMP, & LOCALTIMESTAMP
- Working with INTERVAL data types

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