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Oracle Database: Introduction to SQL

Learn To

- ✓ Understand the basic concepts of relational databases ensure refined code by developers.
- ✓ Create reports of sorted and restricted data.
- ✓ Run data manipulation statements (DML).
- ✓ Control database access to specific objects.
- ✓ Manage schema objects.
- ✓ Manage objects with data dictionary views.
- ✓ Retrieve row and column data from tables.
- ✓ Control privileges at the object and system level.
- ✓ Create indexes and constraints; alter existing schema objects.
- ✓ Create and query external tables.

Objectives

- Identify the major structural components of the Oracle Database 12c
- Create reports of aggregated data
- Write SELECT statements that include queries
- Retrieve row and column data from tables
- Run data manipulation statements (DML) in Oracle Database 12c
- Create tables to store data
- Utilize views to display data
- Control database access to specific objects
- Manage schema objects
- Display data from multiple tables using the ANSI SQL 99 JOIN syntax
- Manage objects with data dictionary views
- Write multiple-column sub-queries
- Employ SQL functions to retrieve customized data
- Use scalar and correlated sub-queries
- Create reports of sorted and restricted data

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Topics

- Introduction
- Retrieving Data using the SQL SELECT Statement
- Restricting and Sorting Data
- Using Single-Row Functions to Customize Output
- Using Conversion Functions and Conditional Expressions
- Reporting Aggregated Data Using the Group Functions
- Displaying Data from Multiple Tables Using Joins
- Using Subqueries to Solve Queries
- Using the SET Operators
- Managing Tables using DML statements
- Introduction to Data Definition Language
- Introduction to Data Dictionary Views
- Creating Sequences, Synonyms, Indexes
- Creating Views
- Managing Schema Objects
- Retrieving Data by Using Subqueries
- Manipulating Data by Using Subqueries
- Controlling User Access
- Manipulating Data
- Managing Data in Different Time Zones