

Oracle Database: SQL Workshop I NEW

This course offers you an introduction to Oracle Database 12c database technology. You will learn the concepts of relational databases and the powerful SQL programming language. Discover essential SQL skills that allow developers to write queries against single and multiple tables, manipulate data in tables and create database objects.

You Will Learn:

- What a SQL statement is
- About the Oracle Relational Database
- How to use SQL Developer
- How to write reports using SQL Statements
- How to manipulate data in relational tables and how to save the data
- The concepts of relational databases and the powerful SQL programming language
- Write reports using SQL Statements

Benefits To You:

Ensure fast, reliable, secure and easy to manage performance. Optimize database workloads, lower IT costs and deliver a higher quality of service by enabling consolidation onto database clouds.

Use Functions

This Oracle Database course will also teach you how to use single row functions to customize output. Explore using conversion functions and conditional expressions, along with use group functions to report aggregated data.

Course Topics Introduction

- Course Objectives, Course Agenda and Appendixes Used in this Course
- Overview of Oracle Database 12c and Related Products
- Overview of relational database management concepts and terminologies
- Introduction to SQL and its development environments
- What is Oracle SQL Developer?
- Starting SQL*Plus from Oracle SQL Developer
- The Human Resource(HR) Schema
- Tables used in the Course

Retrieving Data using the SQL SELECT Statement

- Capabilities of the SELECT statement
- Arithmetic expressions and NULL values in the SELECT statement
- Column aliases
- Use of concatenation operator, literal character strings, alternative quote operator, and the DISTINCT keyword
- Use of the DESCRIBE command

Restricting and Sorting Data

- Limiting the Rows
- Rules of precedence for operators in an expression
- Substitution Variables
- Using the DEFINE and VERIFY command

Using Single-Row Functions to Customize Output

- Describe the differences between single row and multiple row functions

TRUST-SYSTEMS CONSULTING SARL

N°A6.4, Résidence J, 210 Rue FOCH, AKWA, Douala

BP: 1184 Douala, Cameroun – Tel +237 233 430 911 / +241 03130331

Email: contact@trust-systems.net – site web : www.trust-systems.net

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- Manipulate strings with character function in the SELECT and WHERE clauses
- Manipulate numbers with the ROUND, TRUNC and MOD functions
- Perform arithmetic with date data
- Manipulate dates with the date functions

Using Conversion Functions and Conditional Expressions

- Describe implicit and explicit data type conversion
- Use the TO_CHAR, TO_NUMBER, and TO_DATE conversion functions
- Nest multiple functions
- Apply the NVL, NULLIF, and COALESCE functions to data
- Use conditional IF THEN ELSE logic in a SELECT statement

Reporting Aggregated Data Using the Group Functions

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

Displaying Data From Multiple Tables Using Joins

- Introduction to JOINS
- Types of Joins
- Natural join
- Self-join
- Non equijoins
- OUTER join

Using Subqueries to Solve Queries

- Introduction to Subqueries
- Single Row Subqueries
- Multiple Row Subqueries

Using the SET Operators

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

Managing Tables using DML statements

- Data Manipulation Language
- Database Transactions

Introduction to Data Definition Language

- Data Definition Language

Course Objectives

- Define the goals of the course
- List the features of Oracle Database 12c
- Describe the salient features of Oracle Cloud 12c
- Discuss the theoretical and physical aspects of a relational database
- Describe Oracle server's implementation of RDBMS and object relational database management system (ORDBMS)
- Identify the development environments that can be used for this course
- Describe the database and schema used in this course

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