Oracle Database 12c R2: SQL Workshop 1

Category: AI, Data & Analytics | **Vendor:** Oracle

Duration: 24.00 hours (3 days) **19.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

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.

About This Course

- Understand SQL statements, as well as the Oracle Relational Database.
- Use SQL Developer.
- Write reports using SQL statements.
- Manipulate data in relational tables and save the data.
- Understand the concepts of relational databases and the powerful SQL programming language.
- Write reports using SQL Statements

Use Single Row 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.

Reinforce Your Knowledge through Hands-On Exercises:

Demonstrations and hands-on practice reinforce the fundamental concepts you'll delve into in this course. You will discover and use Oracle SQL Developer as the main environment tool for writing SQL. SQL*Plus is also introduced as an optional tool

Who Should Attend

- Forms Developer
- Functional Implementer
- System Analysts
- Application Developers
- PL/SQL Developer

Prerequisites & Entry Requirements

General Prerequisites:

- Familiarity with data processing concepts and techniques
- Familiarity with programming languages

Learning Outcomes

Upon successful completion of this course, participants will be able to:

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.

Delegates will learn how to

- 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

Detailed Course Outline

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

- 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

Skills You Will Learn:

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.

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Frequently Asked Questions

Q: What delivery options are available for Oracle Database 12c R2: SQL Workshop 1?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 3-day Oracle Database 12c R2: SQL Workshop 1 course provides up to 19.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Oracle Database 12c R2: SQL Workshop 1 training?

The training takes place over 3 day(s), with each day lasting approximately 24.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Oracle Database 12c R2: SQL Workshop 1?

Yes, we provide corporate training, dedicated training, and closed classes for Oracle Database 12c R2: SQL Workshop 1. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Oracle Database 12c R2: SQL Workshop 1, Oracle Database Training, OCDSQLW1

Q: Why choose Nexus Human for Oracle Database 12c R2: SQL Workshop 1?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Oracle Database 12c R2: SQL Workshop 1 training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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