

Queries with Oracle SQL

Audience Oracle SQL Fundamentals Course

The course Oracle SQL Fundamentals is designed for developers, database administrators and other interested parties who wish to learn and use Oracle SQL.

Prerequisites Course Oracle SQL Fundamentals

The course Oracle SQL Fundamentals has no specific requirements. General knowledge of system development and databases is beneficial to a good understanding.

Realization Training Oracle SQL Fundamentals

The theory is treated on the basis of presentation slides. Demos are used to explain the theory. There is ample opportunity to practice. The course works with newest Oracle version but is also suitable for older Oracle versions. The course times are from 9.30 to 16.30.

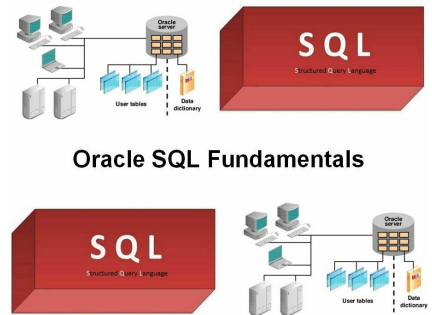
Certification Oracle SQL Fundamentals

Participants receive an official certificate Oracle SQL Fundamentals after successful completion of the course.

Duration: 3 days

Price: € 1850

[Open Schedule](#)



Content Course Queries with Oracle SQL

In the course Queries with Oracle SQL participants learn the syntax and use of the query language SQL in the context of an Oracle database. SQL is an ANSI and ISO standard Query language that is applicable in all relational database management systems (DBMS). With SQL you can both retrieve and modify data in an Oracle database.

SQL Intro

After an introduction to relational databases and Oracle, the Oracle installation, environment and tooling, the basic aspects and backgrounds of SQL are discussed. Oracle, like other DBMS systems, has added extra features of its own to standard SQL and these are also discussed in the course.

Data Definition and Data Manipulation

In the first place the course covers how SQL statements can be created and executed in Oracle. Subsequently the various components of SQL are treated step by step, such as Data Definition Language with CREATE TABLE and Data Manipulation Language with INSERT and UPDATE.

SQL Select Queries

Next attention is paid to writing SELECT queries. The grouping of data by means of GROUP and HAVING clauses is also on the program of the course.

SQL Functions

The various functions in SQL are discussed. Among other things, the mathematical, conversion and aggregation functions for calculating sum and average are treated. Attention is also paid to features specific to Oracle.

Joins

Next the course covers how to combine data from different tables by means of joins. The various types of joins like inner and outer joins are discussed.

SET Operators

Finally attention is paid to the application of SET operators such as UNION and INTERSECT. The command line interface of SQL*Plus is also treated.

Modules Course Queries with Oracle SQL

Module 1 : Oracle Introduction	Module 2 : SQL Introduction	Module 3 : Data Definition
Databases DBMS Systems Types of Database Models Entities and relationships Relational databases Oracle tools Installing Oracle Oracle versions	SQL Foundations SQL Developer Connection Navigator Creating and Using Connections SQL Worksheet Statements and execution SQL History Storing statements	CREATE TABLE Specifying Columns ALTER TABLE NULL and Default Values DROP COLUMN DROP TABLE PURGE Virtual columns
Module 4 : Data Manipulation	Module 5 : SQL Queries	Module 6 : Grouping
Data Manipulation Language Transaction control Inserting rows INSERT statement Updating rows UPDATE statement DELETE statement TRUNCATE TABLE DML on virtual columns	Selecting rows SELECT statement FROM clause Specifying conditions WHERE clause Sorting with ORDER BY NULLs, FIRST, LAST Removing Doubles BETWEEN, IN, ANY, ALL	GROUP BY clause Filtering groups HAVING clause Operators String and Date Operators Concatenate operator Quote operator q Operators for patterns Operators for intervals
Module 7 : Functions	Module 8 : Joins	Module 9 : SET Operators
Function of column values Using functions SELECT clause functions WHERE clause functions GROUP BY clause functions HAVING clause functions ORDER BY clause functions String and Arithmetic functions Date and Conversion functions National Language Support NLS parameters Cast	Joining Multiple Tables Normal Joins Outer Join More tables ANSI joins Inner join Natural join ANSI outer join Cross join Multiple join conditions Subselections EXISTS	SET Operators UNION UNION ALL INTERSECT MINUS Nesting of SET operators Working with SQL*Plus Connect statement and /nolog SQL buffer Storing statements Spool files Transaction control