

SQL Introduction 1 day

Microsoft SQL Server™
The enterprise relational database

ORACLE®

Course Objectives

To give delegates an introduction to the features and capabilities of Structured Query Language (SQL). The course covers elements of ANSI SQL using SQL Server or Oracle as an example database.

Prerequisites

It is recommended that students have good experience of windows and some of using relational databases.

Exercises

This course is instructor led, involving the utilisation of examples and exercises in a workshop environment.

Getting Started

- Relational Database Concepts
- The role of SQL
- ANSI 89 & 92 standards

Writing Basic SQL Statements

- Selecting data
- SELECT statement syntax
- SQL vs SQL*Plus commands

Restricting and Sorting Data

- Limiting the rows returned by a query
- Sorting the rows

Single Row Functions

- The types of functions available in SQL
- Using Character, Number and Date functions in SELECT statements
- Conversion functions and their uses

Getting data from multiple tables

- Joining multiple tables in a SELECT statement
- The Cartesian Product
- Different join types

Aggregating data using group functions

- Aggregate or group functions
- Grouping data using the GROUP BY clause

SQL Tools

- SQL Query Analyser
- The Object Browser
- Creating and executing script files