

Introduction to SQL

A 2 day **Hands on** training course



Description

A hands on course focusing on the use of SQL. In particular this course does not concentrate on any particular version of SQL but rather enables delegates to recognise the differences found in SQL on different platforms.



Key outcomes

By the end of the course delegates will be able to:

- ✓ Explain the difference between standard SQL and different flavours.
- ✓ Use SQL statements to query databases.
- ✓ Use SQL statements to define databases.



Training approach

This structured course uses Instructor Led Training to provide the best possible learning experience. Small class sizes ensure students benefit from our engaging and interactive style of teaching with delegates encouraged to ask questions throughout the course. Quizzes follow each major section allowing checking of learning. Hands on sessions are used throughout to allow delegates to consolidate their new skills.



Details

Who will benefit?

Anyone working with databases.

Prerequisites

None.

Duration: 2 days

Overall rating:



Generic training 	Small class sizes 	Hands On training 	Our courseware 	Customise your course 
<p>Generic training complements product specific courses covering the complete picture of all relevant devices including the protocols “on the wire”.</p>	<p>We limit our maximum class size to 8 delegates; often we have less than this. This ensures optimal interactivity between delegates and instructor.</p>	<p>The majority of our courses use hands on sessions to reinforce the theory.</p>	<p>We write our own courses; courseware does not just consist of slides and our slides are diagrams not bullet point text.</p>	<p>Please contact us if you would like a course to be customised to meet your specific requirements. Have the course your way.</p>
<p><i>“Friendly environment with expert teaching that teaches the why before the how.”</i> G.C. Fasthosts</p>	<p><i>“Excellent course. The small class size was a great benefit...”</i> M.B. IBM</p>	<p><i>“Not many courses have practice added to it. Normally just the theoretical stuff is covered.”</i> J.W. Vodafone</p>	<p><i>“Comprehensive materials that made the course easy to follow and will be used as a reference point.”</i> V.B. Rockwell Collins</p>	<p><i>“I was very impressed by the combination of practical and theory. Very informative. Friendly approachable environment, lots of hands on.”</i> S.R. Qinetiq</p>

Introduction to SQL

Course content

What is SQL?

What is SQL? History, standards, What is SQL used for? Dialects, ANSI SQL, PL/SQL, Transact SQL, front ends.

Table joins

Multiple tables, joins, keys, inner joins, left joins, right joins.
Hands on: Selecting data from an existing tables.

Database basics

RDBMS, Tables.
Hands on: Investigating a database.

SQL basic data manipulation

INSERT, UPDATE, MERGE, DELETE.
Transaction controls: COMMIT, ROLLBACK.
Hands on: Modifying data in tables.

Basic SQL commands

SQL Overview: SQL DML, SQL DDL, SQL queries. SELECT, WHERE and ORDER BY clauses. Combining conditions. IN, LIKE and BETWEEN.

Hands on: Querying a database from existing tables.

SQL Data Definition

USE, CREATE, DROP, TRUNCATE, ALTER.
Hands on: Managing new tables and columns.

SQL data retrieval

Scalar functions
Hands on: Selecting data from an existing tables.

Data control

GRANT, REVOKE.
Hands on: Defining permissions.

More SQL data retrieval

Scalar functions, variations. Aggregate functions, GROUP BY. HAVING.
Hands on: Selecting data from an existing tables.

