

Introduction to SQL

Duration: 1 Day **Course Code: ISQL** **Delivery Method: Virtual Learning**

Overview:

Introduction to SQL Course Overview

The Introduction to SQL course is designed to give delegates practical experience in using ANSI standard SQL. As it is a generic course, some of the differences between different vendors' implementations will be noted. Exercises and examples are used throughout the course to give practical hands-on experience with the techniques covered.

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Target Audience:

Who will the Course Benefit?

Anyone who needs to understand and use SQL to manipulate a database.

There are no formal pre-requisites for this Introduction to SQL course, although an understanding of databases and exposure to information technology in general would be useful.

Objectives:

- Course Objectives
 - To provide the knowledge and skills needed to retrieve data held in a relational database.
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Prerequisites:

- There are no formal pre-requisites for the Introduction to SQL course, although an understanding of databases and exposure to information technology in general would be useful. This knowledge can be gained by attendance on the Relational Databases & Data Modelling Overview course.
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Follow-on-Courses:

Further Learning

- Oracle SQL
 - SQL for PostgreSQL
 - Querying Microsoft SQL Server with Transact-SQL
 - Introduction to MySQL
 - Introduction to MariaDB
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Content:

Introduction to SQL Training Course Course Contents - DAY 1

Course Introduction

- Administration and Course Materials
- Course Structure and Agenda
- Delegate and Trainer Introductions

Session 1: RELATIONAL DATABASE CONCEPTS

- What is a Relational Database?
- Relational Database Structures
- Tables, Rows and Columns
- Indexes, Primary Keys and Foreign Keys
- Data Types
- The Data Dictionary

Session 2: RETRIEVING DATA WITH THE SELECT STATEMENT

- The SELECT Statement
- The SELECT and FROM Clauses
- Conditions and the WHERE Clause
- Other Conditional Operators
- Logical Operators
- The ORDER BY Clause
- Column Aliases
- Arithmetic Operations
- Precedence of Operators

Session 3: AGGREGATE FUNCTIONS

- Overview of Built in Aggregate Functions
- The GROUP BY Clause
- The HAVING Clause

Session 4: JOINING TABLES

- Overview of Table Joins
- Inner Joins
- Table Aliases
- Outer Joins
- Self Joins
- ANSI Standard Joins

Session 5: BASIC SUBQUERIES AND SET OPERATORS

- Overview of Subqueries
- Basic Subqueries
- Set Operators

Further Information:

For More information, or to book your course, please call us on 0800/84.009

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www.globalknowledge.com/en-be/