

# INTRODUCING SQL



## Course Outline and Specification



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## Introduction

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This course is an introduction to SQL programming, for those who are new to programming concepts, detailing areas such as setting up tables, setting and building queries and creating a simple working relational database.

SQL is the language used in database design and for database querying. This course will introduce you to an SQL editor and how to write SQL to build and query relational databases.

This is an interactive course and practical in nature. It can be held fully self-paced, or online or with full tutor support.

A practical course throughout, learners should be prepared to program directly from the beginning.

## Duration

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This is a 6-hour short-course, held online and tutor-led over a number of sessions, or alternatively self-paced via purely online learning.

## Suitability

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This introduction course is suitable for very beginners to anyone who has spent a length of time away from SQL and would like to re-visit the environment to boost their confidence levels.



# Course Outline

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## 1. Introduction to Databases and SQL

- An introduction to databases
- What is a relational database?
- An introduction to SQL
- Getting to know the SQL environment

## 2. Databases and Data Types

- Creating a database using SQL
- Getting to know data types
- Understanding the structure of types of data

## 3. SQL Statements and Functions

- Getting to know basic SQL statements such as:
  - CREATE, SELECT, ALTER and UPDATE

## 4. Creating and Querying Tables

- Creating basic tables using SQL
- Understanding the purpose of syntax
- Setting relevant data types for table creation

## 5. Arithmetic and Logical Operators

- Getting to know arithmetic and logical operators
- Creating basic queries with logical operators

## 6. Creating a Simple Working Database with SQL

- Creating a new simple database
- Creating tables and setting correct syntax and data types
- Creating simple queries to interrogate the database



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