# SQL for Data Analysts

**In this course, you'll learn the essentials of Structured Query Language (SQL), a programming language used to extract and organise data stored in relational databases.**

## IS THIS COURSE FOR YOU?

This course is for those who are interested in learning the SQL programming language to efficiently access the data you wish to analyse.

## ABOUT THE COURSE

The course includes a series of video lectures combined with a variety of conceptual and hands-on activities to help you develop the skills to identify the critical characteristics of databases and work with relational databases.

You'll learn about database design and modelling essentials. Here you'll learn about the Database Management System, which is the system in charge of the control, storage, organisation, and retrieval of data through end-user applications.

You'll then explore the most common features of the SQL programming language using Microsoft's SQL Server. During the final part of the course, we'll focus on MySQL, an open-source relational database management system. In this module, you'll learn the fundamentals of data management using MySQL.

The course is divided into three modules and includes knowledge tests at the end of each section.

## AIMS AND OBJECTIVES

The aim of the course is to introduce you to database design and management and to help you develop your skills using SQL tools that you can implement in the field of data analysis.

## PRE-REQUISITES

Strong critical-thinking and problem-solving skills, a strong background in mathematics (e.g., advanced algebra), and some experience with coding.

## COURSE CONTENT

**Module 1: Generic Database Fundamentals**
Architecture and Normalisation Concepts; Concepts and Conceptual Design

**Module 2: Introduction to SQL**
Managing Table Design, Multiple Tables and Advanced Queries; Views, Transactions, and SQL Security Architecture

**Module 3: MySQL Database Development**
Database Design Fundamentals; DDL Statements; Manipulating Data; SELECT Statements and Operators; Working with Functions

## CAREER PATH

To become an effective data analyst, you'll need several programming languages in your toolkit. SQL is among the most sought-after skills among data analysts.

## COURSE DURATION

44 hours. This will vary based on prior knowledge and ability.

**CPD POINTS: 44**
*CPD points awarded upon successful completion*

**To find out more, speak to one of our course advisors.**

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