

## SQL Basics

**Structured Query Language (SQL) is an industry standard language used to access information held within a relational database. One day practical course which introduces the main components of a relational database and how to write SQL to access and manipulate the information contained within the database. Although not specific to any one product, the course covers the universally accepted ANSI-standard SQL together with some common extensions used by mainstream database**

### On completion, delegates will be able to:

Write basic SELECT, INSERT, UPDATE and DELETE SQL statements in a well structured and efficient way to perform basic queries and maintain information held on a relational database.

### Who should attend?

This course is aimed at an audience who need to be able to use basic SQL statements to query and manipulate information contained within a relational database.

### Prerequisites

A working knowledge of the Microsoft Windows environment. The course starts from basic principles and assumes no prior knowledge of SQL.

### Course Duration

1 day

### Practical work

Practical sessions will reinforce many of the topics covered and are used extensively throughout this course. These allow delegates to have direct, hands-on practice of deriving and executing SQL statements against the course database containing real-life retail sales information.

### Related and follow-on courses

None

### Course Contents

- Introduction to a relational database and its key components
- The basic components of a SELECT statement used to query information held on a database
- Returning unique information using the DISTINCT clause
- Sorting the information returned via the ORDER BY clause
- Limiting the information returned by the WHERE clause
- Manipulating data contained within the database using basic INSERT, UPDATE and DELETE statements
- Returning information from more than one table at a time by use of both the INNER and OUTER JOIN clauses
- How to create summarised queries by use of various aggregate functions and the GROUP BY clause
- Limiting the information returned by a summarised query using the HAVING clause
- Various standard database functions that can be used to augment the information contained within the database

### Acuma Education

All Acuma courses are delivered by trainers who are highly experienced consultant practitioners. This rich project experience coupled with professional training skills helps delegates to focus on how the course contents can be put into practice in their workplace.

Acuma delivers courses from dedicated training facilities in Manchester, Birmingham and London, but also deliver training offsite using suites of laptops, with the option to customise courses to use your own business data and tailored to your exact training needs. The most appropriate training format depends upon your training objectives, number of learners, timescales, budgets and delivery logistics. Whatever your needs, Acuma will find the approach most suited to them.

Acuma Education's seal of quality is demonstrated through consistent achievement of the prestigious "Gold Standard" from the IITT (Institute of IT Trainers).

