

# SQL Training Course

## Overview

Orchard and Amber Green have collaborated to develop a 2-day on-site course that offers Orchard customers the opportunity to learn the skills required to write queries and reports using SQL.

The course focuses on the key elements of SQL necessary for producing reports and, by using the customer's own IMS data, will also aid understanding of the data structures used in Orchard data marts.

## Outcomes

By the end of this training, attendees will be able to:

- Understand the basics of Relational Databases and Data Marts
- Write SQL code to query the Database
- Understand and use SELECT statement clauses
- Understand and use operators
- Process data with aggregate and other functions
- Manipulate data with subqueries
- Use views to break down problems

All using the IMS Presentation Database and Orchard Housing IMS Data.

## Benefits

- Hands-on exercises which use the customer's own data and real housing queries provide attendees with a high-value learning experience
- Aids understanding of the data structures used in Orchard data marts
- Access to an Orchard data expert who can assist with any specific issues or problems
- Reduces the need for Orchard consultancy
- By focusing solely on the key SQL elements required to create reports from Orchard's systems, this course offers much better value for money than standard 5 day SQL courses
- The course is delivered on customer premises and so reduces travel and other expenses

## Agenda

Over two days the following material will be covered:

1. Databases, SQL and Data Marts Overview
2. SQL SELECT, WHERE and ORDER BY Clauses
3. SQL Predicates and Operators
4. Aliases
5. JOINS - INNER, OUTER, FULL
6. Aggregate Functions
7. Other Functions - eg Date, Character functions
8. Combined Queries and Subqueries
9. PIVOT
10. Views

There are hands-on exercises throughout.

## Pre-requisites

- No prior SQL knowledge is required
- Aptitude for or interest in working with data is desirable, as would be some experience of report writing and knowledge of Orchard Housing
- One PC per trainee with access to a local IMS environment

## Cost

Total cost: £3,200 (exc VAT) for up to 5 delegates, including all expenses and training materials.

## Booking

To book a course please contact Mark Duffill on:

07791 522595 or [mark.duffill@amber-green-consulting.co.uk](mailto:mark.duffill@amber-green-consulting.co.uk)