

Database design

A 3 day **Hands on** training course



Description

Although this course mentions Microsoft Access the same course can be run with a variety of different databases. The duration of the course is dependent on the experience of the delegates.



Key outcomes

By the end of the course delegates will be able to:

- ✓ Name and give 3 types of database structure.
- ✓ Explain the difference between standard SQL and different flavours.
- ✓ Use SQL statements to query & define databases.
- ✓ Describe the principles of relational database design and 3 types of relational joins.
- ✓ Normalise a given flat file table into relational tables.
- ✓ Create a relational database consisting of 3 related tables.



Training approach

This structured course uses Instructor Led Training to provide the best possible learning experience. Small class sizes ensure students benefit from our engaging and interactive style of teaching with delegates encouraged to ask questions throughout the course. Quizzes follow each major section allowing checking of learning. Hands on sessions are used throughout to allow delegates to consolidate their new skills.



Details

Who will benefit?

Anyone who needs to be able to design an efficient, watertight database following the best practice of the principles of Relational Database design.






Prerequisites

None.

Duration: 3 days

Overall rating:



| Generic training  | Small class sizes  | Hands On training  | Our courseware  | Customise your course  |
|---|--|---|---|---|
| <p>Generic training compliments product specific courses covering the complete picture of all relevant devices including the protocols "on the wire".</p> <p><i>"Friendly environment with expert teaching that teaches the why before the how."</i> G.C. Fasthosts</p> | <p>We limit our maximum class size to 8 delegates; often we have less than this. This ensures optimal interactivity between delegates and instructor.</p> <p><i>"Excellent course. The small class size was a great benefit..."</i> M.B. IBM</p> | <p>The majority of our courses use hands on sessions to reinforce the theory.</p> <p><i>"Not many courses have practice added to it. Normally just the theoretical stuff is covered."</i> J.W. Vodafone</p> | <p>We write our own courses; courseware does not just consist of slides and our slides are diagrams not bullet point text.</p> <p><i>"Comprehensive materials that made the course easy to follow and will be used as a reference point."</i> V.B. Rockwell Collins</p> | <p>Please contact us if you would like a course to be customised to meet your specific requirements. Have the course your way.</p> <p><i>"I was very impressed by the combination of practical and theory. Very informative. Friendly approachable environment, lots of hands on."</i> S.R. Qinetiq</p> |

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Course content

Database structure and terminology.

Principles of Relational Database Design.

Types of relationship.

Normal Forms.

Practical examples of relational database design.

Hands-on creation of a database.

On paper design a relational database applicable to the delegates work.

