



Product Code: INF745 ISBN: 978-1-921340-74-1

# Microsoft Access 2007 Level 3

General Description	The skills and knowledge acquired in Microsoft Access 2007 Level 3 are sufficient to automate operations using macros, secure and protect data, and have a general understanding of the programming environment in Microsoft Access 2007.
Learning Outcomes	At the completion of Microsoft Access 2007 Level 3 you should be able to:
	<ul> <li>design a relational database project</li> <li>create a relational database file with multiple tables</li> <li>set table relationships and join tables together</li> <li>create queries based on one or more tables</li> <li>create and work with aggregation queries</li> <li>create and use a series of action queries</li> <li>work with a number of macro techniques</li> <li>create some simple programming code using VBA</li> </ul>
Target Audience	This publication is primarily designed for people who need to know how to automate operations in Microsoft Access 2007. It is ideal for people who working in offices, clubs, or for home use.
Prerequisites	Microsoft Access 2007 Level 3 assumes little or no knowledge of the software. However, it would be beneficial to have a general understanding of personal computers and the Windows operating system environment.
Pages	86 pages
Approx* Duration	6-8 hrs
Course Disk	Many of the topics in Microsoft Access 2007 Level 3 require you to open an existing file with data in it. These files can be downloaded free of charge from our web site at www.watsoniapublishing.com. Simply follow the student files link on the home page. You will need the product code for this course which is INF745.
Methodology	The In Focus series of publications have been written with one topic per page. Topic sheets either contain relevant reference information, or detailed step-by-step instructions designed on a real-world case study scenario.
Companion Publications	There are a number of other complimentary titles in the same series as this publication. Information about other relevant publications can be found on our web site at www.watsoniapublishing.com.

<sup>\*</sup> Approximate duration should be used as a guide only. Actual duration will vary depending upon the skills, knowledge, and aptitude of the participants. This information sheet was produced on Thursday, October 07, 2010 and was accurate at the time of printing. Watsonia Publishing reserves its right to alter the content of the above courseware without notice.



Telephone: (61 3) 9851 4000 Facsimile: (61 3) 9851 4001

Web Site: www.watsoniapublishing.com





**Product Code: INF745** 

ISBN: 978-1-921340-74-1

## Microsoft Access 2007 Level 3

#### **Contents**

#### **Relational Database Design**

Designing A Relational Database Scoping The System Determining The Inputs Normalising A Database First Normal Form (1NF) Second Normal Form Second Normal Form – Case Study Third Normal Form (3NF) Database Indexing

# Creating A Relational Database

Creating A New Database File Creating Lookup Tables Defining A Primary Key Saving And Closing A Table Creating The Expense Type Table Creating The Transactions Table Creating The Details Table

### **Setting Table Relationships**

**Understanding Table** 

Relationships

Relationships

**Understanding Lookup** 

Looking Up The Employees Table
Looking Up The Expense Types
Table
Viewing Table Relationships
Understanding Table Joins
Editing The Employee Table Join
Editing The Expense Type Table
Join

Creating A New Join Creating A Relationships Report

#### **Multi-Table Queries**

Understanding Relational Queries Creating A Relational Query Design Filtering A Relational Query Filtering Related Fields Adding More Tables And Fields Utilising Hidden Fields

#### **Aggregation Queries**

Creating An Aggregation Query

Working With Aggregation
Queries
Multiple Aggregations
Modifying Aggregation Headings
Aggregating Calculated Fields
Applying Criteria To Aggregations
Understanding Nested Queries
Creating An Assembly Query
Creating The Nesting Query

#### **Action Queries**

Creating A Make Table Query
Using A Make Table Query
Expressions And Update Queries
Preparing An Update Query
Running An Update Query
Updating Using Expressions
Running An Expression Based
Update
Creating A Delete Query
Running A Delete Query
Creating An Append Query
Running An Append Query
Turning Action Messages Off

#### **Macro Techniques**

Creating A Print Macro
Using Conditions To Enhance A
Macro
Creating A Sequence Of
Conditions
Understanding The Versatility Of
MsgBox
Using The MsgBox Function
Reconfiguring A Message Box
Using The InputBox Function

## **An Introduction To VBA**

Understanding VBA
Coding VBA For An Event
Running VBA Event Code
MsgBox And InputBox
Modifying An Existing Procedure
Understanding The Modified Code
Creating A Standard Module
Running The Code
Understanding The Loan
Simulator Code
Creating A Button For The
Simulator
Attaching The Simulator Code

**Concluding Remarks** 

Your supplier is:

**Product Information**