

# Microsoft Access 2016



### Level 2 (with Challenge Exercises)

Product Code: INF1695 ISBN: 978-1-925526-51-6

*	General
	Description

The aim of this course is to build on the introductory skills of Level 1. The student learns how to ensure that data is entered correctly, how to create more sophisticated and complex queries, and is introduced to some basic automation techniques involving macros.

Learning Outcomes At the completion of this course you should be able to:

- use various data validation features in Access to protect data
- format the data in a table
- perform more advanced queries using a variety of querying techniques
- create and use parameter queries
- create calculated queries
- modify and adapt an existing form according to specific needs
- create a navigation form for a database in Access 2016
- create forms using a combination of wizards and manual techniques
- create and use macros in Access
- work with a number of macro techniques
- create and work with macros in forms
- create and manage custom categories and groups in the Navigation Pane

Prerequisites

Microsoft Access 2016 - Level 2 (with Challenge Exercises) assumes some knowledge of the software to create basic databases and generate reports. It would be beneficial to have a general understanding of personal computers and the Windows operating system environment.

Topic Sheets

144 topics

Methodology

The InFocus 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. Publications can be used for instructor-led training, self-paced learning, or a combination of the two.

FormatsAvailable

A4 Black and White, A5 Black and White (quantity order only), A5 Full Colour (quantity order only), Electronic Licence

Companion Products There are a number of complementary titles in the same series as this publication. Information about other relevant publications can be found on our website at **www.watsoniapublishing.com**.

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#### **Contents**

#### **Data Validation**

Assigning Default Values Validation Rules and Text Validating Numbers Setting Required Fields Working With Validations Challenge Exercise Challenge Exercise Sample

#### **Formatting Tables**

Changing Column Widths
Formatting Cells in a Table
Changing Fonts
Moving Columns in a Table
Freezing Columns in a Table
Hiding Columns in a Table
Unhiding Columns
Challenge Exercise
Challenge Exercise Sample

#### **Querying Techniques**

Modifying a Saved Query Creating AND Queries **Creating OR Queries** Querying Numeric Data **Querying Dates** Using a Range Expression **Querying Opposite Values** Moving Fields in a Query Sorting Query Data Removing Fields From a Query **Querying Using Wildcards Problem Characters** Querying With a Lookup Table Sorting Query Data Numerically **Displaying NULL Values** Querying for Uniqueness Challenge Exercise Challenge Exercise Sample

#### **Parameter Queries**

Creating a Parameter Query
Displaying All Records
Using Parameters to Display a Range
Using Parameters in Expressions
Using Parameters With Wildcards
Challenge Exercise
Challenge Exercise Sample

#### **Calculations in Queries**

Creating a Calculated Field
Formatting Calculated Fields
Summarising Data Using a Query
Changing the Grouping
Calculating With Dates
Using Criteria in Calculations
Concatenating String Fields
Challenge Exercise
Challenge Exercise Sample

#### **Modifying Forms**

Understanding Form Design and Layout Switching Between Form Views Selecting Form Objects Working With a Control Stack **Changing Control Widths** Moving Controls on a Form **Aligning Controls Understanding Properties Changing Label Captions** Adding an Unbound Control Adding a Control Source Formatting a Control Checking the Current Tab Order Changing the Tab Order Inserting the Date Into the Form Header Challenge Exercise Challenge Exercise Sample

#### **Using a Navigation Form**

Creating a Simple Navigation Form
Creating a More Complex Navigation
Form
Creating the Navigation Form Page
Tabs
Creating Subsidiary Pages
Adding Subsidiary Pages
Editing Page Tab Names
Applying a Theme
Modifying Properties
Automatically Starting the Navigation
Form
Challenge Exercise

#### **DIY Forms**

Creating a Multiple Item Form
Adjusting the Layout of a Form
Typing Into a Form Layout
Disabling Fields
DIY Sub Forms
Removing SubForm Redundancy
Splitting and Merging Layout Cells
Adding an Easy Lookup Field
Adding Buttons to a Form
Adjusting Form Properties
Challenge Exercise
Challenge Exercise Sample

#### **Creating and Using Macros**

Understanding Macros and VBA
Creating a Macro
Running a Macro
Modifying an Existing Macro
Interacting With the User
Stepping Through a Macro
Documenting Macros
Challenge Exercise
Challenge Exercise Sample

#### **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
Challenge Exercise
Challenge Exercise Sample

#### **Macros on Forms**

Understanding Macros on Forms
Creating Navigation Macros
Accessing Event Macros
Creating Unassigned Buttons
Programming an Event
Running an Event Macro
Modifying an Event Macro
Setting Echo Off
Adding a Close Button
Creating a Search Macro
Running the Search Macro

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Challenge Exercise Sample



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Understanding the Search Macro Naming Macros Referencing Macro Sheet Macros Challenge Exercise Challenge Exercise Sample

#### **Navigation Pane Protection**

Understanding the Navigation Pane Creating Custom Categories Creating Custom Groups Adding Objects to a Group Hiding Groups and Objects Showing Hidden Groups and Objects Challenge Exercise Challenge Exercise Sample

