# Access 2010: Part I

Learn Access Stephen Moffat, The Mouse Training Company



Microsoft\*

Microsoft Access 2010

Access<sup>-</sup>2010 Part

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### Access 2010

### Part I

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# Section 1 The Basics

#### By The End Of This Section You Will Be Able To Identify

- Title Bar
- Ribbons
- The Access window
- Ask a Question

#### **Guide Information**

#### Introduction

Access 2010 is a powerful Database application that allows users to produce tables, forms, queries and reports within a datbase it can also contain calculations, graphs, pictures and files.. access to web data and sharepoint information is available to be built in to the database an externely powerful database application.

#### How To Use This Guide

This manual should be used as a point of reference following attendance of the introductory level Access 2010 training course. It covers all the topics taught and aims to act as a support aid for any tasks carried out by the user after the course.

The manual is divided into sections, each section covering an aspect of the introductory course. The table of contents lists the page numbers of each section and the table of figures indicates the pages containing tables and diagrams.

#### Objectives

Sections begin with a list of objectives each with its own check box so that you can mark off those topics that you are familiar with following the training.

#### Instructions

Those who have already used a database before may not need to read explanations on what each command does, but would rather skip straight to the instructions to find out how to do it. Look out for the arrow icon which precedes a list of instructions.

#### Appendices

The Appendices list the Ribbons mentioned within the manual with a breakdown of their functions and tables of shortcut keys.

#### Keyboard

Keys are referred to throughout the manual in the following way:

ENTER - Denotes the return or enter key, DELETE - denotes the Delete key and so on.

Where a command requires two keys to be pressed, the manual displays this as follows:

CTRL + [P] - this means press the letter "p" while holding down the Control key.

#### Commands

When a command is referred to in the manual, the following distinctions have been made:

When Ribbon commands are referred to, the manual will refer you to the Ribbon -

E.G. "Choose HOME from the Ribbons and then B for bold".

When dialogue box options are referred to, the following style has been used for the text -

E.G. "In the PAGE RANGE section of the PRINT dialogue, click the CURRENT PAGE option"

Dialogue box buttons are Emboldened - "Click OK to close the PRINT dialogue and launch the print."

#### Notes

Within each section, any items that need further explanation or Points for extra attention devoted to them are denoted by shading. For example:

"Access will not let you close a file that you have not already saved changes to without prompting you to save."

#### <u>OR</u>

"Access will not let you close a file that you have not already saved changes to without prompting you to save."

#### Tips

At the end of each section there is a page for you to make notes on and a "Useful Information" heading where you will find tips and tricks relating to the topics described within the section.

#### The Access Screen

**WINDOW BORDER** The box that surrounds the Access screen when it is not maximised is called the window border. When the mouse is over the border, the pointer changes from a single to a double-headed arrow – clicking and dragging with this shape allows the window to be resized.

**TITLE BAR** The coloured bar that appears at the top of the Access window. The title bar tells you which application you are using and if the document you are in is maximised, it will also contain the name of the document. If the Access window is not maximised, by positioning the mouse over the title bar and clicking and dragging, you can move the Access window to a new location on the screen.

**MAXIMISE BUTTON** When working in a document, the Access screen contains two windows, an application window and a document window. You can maximise both windows to capitalise on the space you have on-screen. If you would like the window that your Access application is in to fill up the whole screen, click the outermost maximise button. You may find that the document you are in can still be bigger – click the inner maximise button to fill the remaining space within the Access application window.

**MINIMISE BUTTON** This button is very useful if you need to temporarily switch from Access into another application without closing Access down completely. Click the minimise button to shrink Access to an icon on the task bar; you will then be able to view other icons and applications you may wish to access. When you are finished and ready to continue, click the Access icon from the task bar to resume. The innermost minimise button will minimise the current document window.

**RESTORE BUTTON** This button only appears when a window is maximised. A maximised window has no border and you cannot see what is behind it. If you want to put the window back inside its border so that you can move and size it, click the restore button.

**CLOSE BUTTON** This button is used to close a window. If you click the close button for a document window you close the document. The last button will close the Access application.

**DIALOGUE BOX LAUNCHER** this button launches dialogue boxes specific to the part of the ribbon you see them the category will be named such as font, **CLIPBOARD**, etc

**BACKSTAGE VIEW – FILE RIBBON** is the start of Access and has many important commands and option. Such as Access settings, opening, saving, printing and closing files. This will be looked into much further later in the manual.

#### **Access Window Components**

Access 2010 appears as displayed belowwhen a new database is created. There is a pane on the left to help all objects created within access and on the right the main work window to edit and create those objects such as tables and forms etc.

#### > <u>To Activate a Button on the ribbon</u> <u>MOUSE</u>

1. Click the left mouse button on the required tool.

Cell Effect	Gridlines Sho		
Flat	V Horizonta		ОК
Raised	Vertical		
Sunken	ver ucar		Cancel
Background Color:	Alternate Backgro	ound Color:	Gridline Color:
	•	-	
Sample:			
Sample: Border and Line Styl	es	1	
Border and Line Styl		1	

**Dialogue Box** 

5

To open a dialogue box use the **DIALOGUE BOX LAUNCHER** when the dialogue box is open, make a choice from the various options and click OK in the dialogue box. If you wish to change your mind and close the dialogue box with out making a choice then click on **CANCEL**. The dialogue box will close without any choice being applied. If you would like help while the dialogue box is open then click on the "?" in the top right hand corner this will bring up a help window that will display there levanttopics



#### Groups

Look at a group type on the ribbon such as font and in the bottom right hand corner of that group you may see a small box with a narrow, clicking this is an other method to callup a dialogue box, this time, directly from the ribbon. Many dialogue boxes may be more familiar if you have used Access before.

#### Toolbar

There are only two tool bars with in the new version of Office 2010 there is the quick access tool bar seen here next to the File tab, and there is the mini toolbar



#### **Quick Access Toolbar**

By default there are only three buttons on the quick access tool bar but these can be edited and other regularly used buttons can be placed there. Using the drop down menu next to the quick access tool bar will allow the customisation of this toolbar adding your most often used commands.

#### Mini Tool bar

When ever text is selected within Access a small formatting tool bar will appear above the highlighted text it will disappear if the mouse cursor is move away from the tool bar and will reappear when the mouse cursor is moved over the highlighted text again

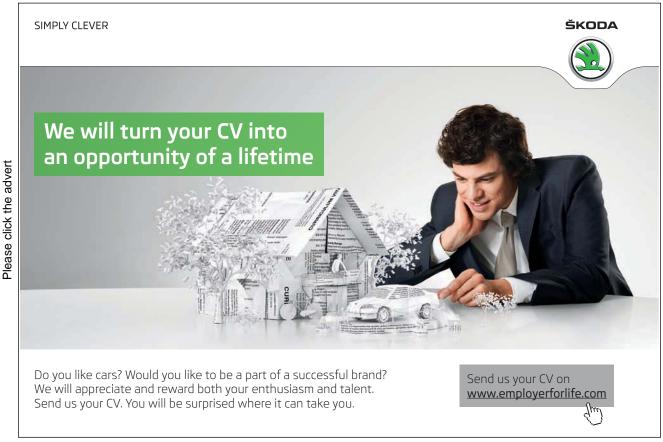


Status Bar



The Status bar, across the bottom of the screen, displays different information at different times. To the left is an indicator, which will display which view you are currently in, to the right are quick options to see which views are available and to change the view you are in E.G. Design

	1				
	Record: H	I H H	No Filler	Search	
Datasheet View					



view, form view or datasheet view..Also information about the status of Access, if anyparticular lock keys are enabled on your keyboard, which view is currently active, and more.

#### Task Pane

At ask pane is a window that collects commonly used actions in one place. The taskpaneen ables you to quickly createormodify a file, perform a search, or view the clipboard.



It is a Web-style area that you can either, dock along the right or left edge of the window or float any where on the screen. It displays information, commands and controls for choosing options. Like links on a Webpage, the commands on a taskpane are highlighted in blue text, they are underlined when you move the mouse pointer over them, and your unthem with a single click.

At ask pane is displayed automatically when you perform certain tasks, for example when you choose clipart from the **INSERT**, Ribbon, to insert a picture

#### **Ribbons Explained**

One of the biggest changes in Access 2010 is the removal of menus. Instead of having a list of menu commands to choose from (including a number of options that are greyed out and not accessible), Access 2010 features a more intuitive control system of tabs. Each tab contains a certain group of commands relevant only to the tab. The commands are listed in the ribbon.

Consider the **HOME** ribbon tab that is selected in the diagram above. Beneath the tab is a listing of all commands that are performed most often on the currently selected object, contained in what Microsoft refers to as the 'ribbon':

File	Home Create Ex	ternal Data Database Tools Add-In	s Fields Table		
View	Paste J Format Painter	Filter     Image: Ascending in the second seco	Refresh All + → Delete + → More +	Alic Replace       ⇒ Go To *       Find       Select *	Calibri         * 11         * 三日           B         J         夏         淳 淳         11         *         三日           A         * 32         公本         三百三三三         三日         -
Views	Clipboard 🚱	Sort & Filter	Records	Find	Text Formatting

The ribbon was designed to allow access to all functionality of a tab at once. Also, the commands in the ribbon are only the commands that are available for use at the time.

We will learn in this lesson how the ribbon works and some of the tools that are available.

#### About Ribbons

There are two main types of ribbons: general (or command) and contextual. The general ribbons (and corresponding tabs) are always visible when you are viewing a database file in Access:

Home Create External Data Database Too	Is
--	----

#### **Command Tabs**

Along the top of the window are the command tabs:



In the past, the Office package made use of menus that contained a listing of commands. At their core, the command tabs are essentially the same thing as menus but with a few big changes. For starters, the grouping of commands in tabs is much more intuitive. The commands listed under each tab are also the only commands that are applicable to your current view of the database.

Access 2010 takes this one step further with the addition of contextual tabs. The tab labelled Fields and Table are a subset of the table toolsn and appears only when you have selected a table in Datasheet view. These tabs will contain even more specific commands that can be used on a table being viewed and will only be visible when a table is being viewed.

The command tabs listed here include many of the most common commands you will perform in Access. The Home ribbon contains the majority of the most common tasks including the ability to switch views, formatting, and filtering of data. If you want to make a new database object, click the Create tab and select the object you want to make. The External Data command tab gives you all the flexibility to import and export data to and from your database, computer, and network. The Database Tools tab gives you the ability to manage the data in your database, create macros, and view relationships.

#### **Contextual Tabs**

Contextual tabs appear only when a certain type of database object is selected (or brought into context). For example, if you are looking at a table in datasheet view, a contextual tab will appear showing you the commands you can perform on the table while only in datasheet view:

				Table Tools	
Home	Create	External Data	Database Tools	Datasheet	

When using a command in the ribbon, simply click it with your mouse. The command will be performed, or the appropriate tool or dialogue box will appear to help you perform the task. If you are unsure what a certain command does, point to it, but do not click it.

#### Tips

After a quick moment a description will appear. This is true for most of the commands:

Home Create External D	Data Database Tools		
Table Tables	Form Split Multiple	Report Wizard Design	Query Query Wizard Design Other
	Split Form Create a split form that shows a datasheet in the upper section and a form in the lower section for entering information about the record selected in the datasheet.		

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#### **Navigation Pane**

On the left side of the Access window is the Navigation Pane. It is always visible on the left side of the screen, but can be expanded ( $\stackrel{>}{>}$ ) or shrunk ( $\stackrel{<}{<}$ ) by clicking the double arrows. The Navigation Pane allows quick and easy access to any of the database objects.

Click the pull-down arrow beside the Navigation Pane title (💟) to show a list of all object categories:

**Object Tabs** 



In previous versions of Access, any open database object was opened in its own window and designed to 'float' inside the Access Screen. When several database objects were open at once, it was difficult to navigate through all of the windows easily. Access 2010 has solved that problem by using tabs:

Simply click any of the tabs visible on the top to show the database object. Opening many database objects will create left and right facing arrows ( $\checkmark$  and  $\checkmark$ ); click on the arrow to scroll that direction through the open database objects. If you want to close an object you are no longer using, click the Close button ( $\checkmark$ ) located beside the tabs.

#### About Smart Tags

Smart Tags, first introduced in Microsoft Office XP, make it easier for you to complete some of the most common tasks in Access 2010 and provide you with more control over automatic features.

You do not have to complete any additional steps to make the Smart Tags appear or disappear in Access. The Paste Options, AutoCorrect Options and AutoFit smart tags appear automatically to allow you to quickly choose actions and remain in place until you begin another action. For example, when you complete a paste operation, the Paste Options smart tag (below) remains in place alongside your text until you begin typing new text.



A "smart tag" is a type of button in Microsoft Access 2010 that appears after certain actions, such as an automatic text correction or a copy-and-paste, have taken place. The button has a menu of options that help you control the result of the action. For instance, if Access automatically capitalizes the first letter of a word, but you want the word lowercased in this instance, you can click the "undo capitalization" option on the button menu to reverse the action.

Access includes several of these smart tag buttons. They function similarly but their look can vary and each has a specific purpose.

#### Auto correct Options Smart Tag

The AutoCorrect Options Smart Tag appears after an automatic correction or change, such as a lowercased letter that's changed to a capital or a network path that's converted to a hyperlink. The Smart Tag shows as a small, blue box when you rest the mouse pointer near text that was changed; it then becomes a button icon which, when you point to it and click it, displays a menu. If you don't want the correction, use the options on the menu to undo it; turn off this type of correction completely; or connect to the AutoCorrect dialogue box to adjust settings.

#### Paste Options Smart Tag

The Paste Options Smart Tag gives you greater control and flexibility in choosing the format for a pasted item. The Smart Tag appears just below a pasted item, such as text, a table, or a slide, with options for formatting. For example, if you copy and paste a slide and insert it after a slide that uses a different design template, you can choose to retain the original design for the slide or let the pasted slide assume the design of the slide it now follows.

🔁 •

Autofit Options Smart Tag

The AutoFit Options Smart Tag appears when Access resizes text you're typing to make it fit the current placeholder. If you don't want the text to be resized, you can select options on the Smart Tag menu to undo the resizing or to connect to the AutoCorrect dialogue box to turn AutoFit settings off. Also, for single-column layouts, you can change to a two-column layout, start a new slide to accommodate the text, or split the text between two slides.

- ∛

#### Automatic Layout Options Smart Tag



The Automatic Layout Options Smart Tag appears after you insert an item, such as a picture, diagram, chart, or table, that changes the initial layout of the slide. To accommodate the added item, Access will automatically adjust the slide layout. If you want, use the options to undo the automatic layout or turn it off completely.

#### New Features In Access 2010

If you are familiar with previous versions of Access, there are a large number of new features and a completely new interface in Access 2010. If you have never used Access before, don't worry – you will quickly become very familiar with these commands as time goes on!

#### New Interface Design

Commands hidden in four different menu layers are a thing of the past with Access 2010.). Commands are now organized using a new action tab scheme. Under each tab are the commands relevant to the action described on the tab. This command set is referred to as the 'ribbon.' Finally, Access 2010 features contextual tabs showing data that is relevant only to the current object you are working on. We will explore the new interface in more detail later.

File	Home	Create	External Data	D	atabase Tools
View	Paste	Filter	$\begin{array}{c} A\\ Z \\ Z \\ A \\ A \\ C \\ A \\ C \\ C \\ C \\ C \\ C \\ C$	Ø. ₩ ¥	Refresh All *
Views	Clipboard 5		Sort & Filter		Records



#### **New Template Categories**

Access 2010 features eleven new templates, each with their own defined tables, forms, reports, queries, and relationships. They are designed to let you start working right away, but are also completely customizable.

#### More Intuitive Sorting and Filtering

Access 2010 lets you pick from several predefined sorting methods with just a couple of clicks. Access also features a contextual quick sorting method using plain language. For example, if you have a column of numbers, Access can sort them Smallest to Largest. If you have a column of dates, Access can sort them from Oldest to Newest.

#### New Layout View

When working with forms and reports, Access 2010 features an in-between view called Layout View. It allows you to see a live form or report with real data in it, but also lets you adjust the position of certain elements in your form or report on the fly. You can also define 'mini layouts' that allow you to move several controls as a group. Access still features the more in-depth Design view, used to fine tune every aspect of a control.

#### **Enhanced Tooltips**

When you hover your mouse above certain command icons, Access 2010 lists the command name, a short description of the command, and an example (if applicable). (Tooltips in previous Office programs listed only the command name.)

#### Automatic Calendar

When entering information into a Date field, a small icon will appear allowing you to choose a date from a small calendar. This eliminates the need to enter a date as 03/22/2010 – just open the calendar and pick the date!

#### **Rich Text in Memo Fields**

If a table makes use of a memo field, data can now be stored as something other than plain text. Using an HTML-based text format, Access lets you automatically add colours, sizes, and formatting to the text in a memo field.

#### Quickly Create New Objects using the Insert Tab

In previous versions of Access, you had to move and minimize windows to find the Database window, pick the category of database object, and then choose to create a new object. With the Insert tab and ribbon, you can create a form based on a table with only two clicks (versus as many as a dozen clicks in the past).

If you need a new table at any point, simply click Table on the Insert tab and start entering data. Access 2010 even lets you paste data directly from a Microsoft Excel spreadsheet. Data types and formatting will be found and preserved automatically.

#### Total Row in Datasheet View

Every table in Datasheet view features an automatic Total Row at the bottom. You can find the sum, count, average, maximum, minimum, standard deviation, or variance using the Total Row.

#### **Field Templates**

In the past, it was potentially a long and tedious task to mould a number data type into a usable field for your organization. Now, you can simply click and drag a predefined field from a list right into your table at any point.

#### Field List Task Pane

When creating a query in previous versions of Access, each table had to be inserted into Design view in order to use various fields. Now, all fields in all tables are visible in a list. Just drag and drop the ones you need.

#### **Split Forms**

A Split Form is new to Access 2010; it combines Datasheet and Form view together as one. The Datasheet view can be placed on the top, bottom, left, or right side of the Form.

#### **Multivalued Fields**

A single field can contain multiple values in Access 2010. Imagine you have a product that falls into a few different categories. In previous versions of Access and other database management programs, this would have required a many-to-many relationship to be defined. Access 2010 handles this complicated background relationship with only an extra click when designing a field.

#### Attachment Data Type

If you want to e-mail a document to a co-worker or some pictures to family members, the files would be sent as an attachment to the e-mail. Access 2010 features a similar attachment data type that can hold documents, charts, sound files, binary files, or any other type of file. Attachments are also automatically compressed when necessary to reduce the overall size of the database file.

#### **Alternating Background Colour**

Datasheet view, reports, and long forms now feature the ability to alternate the background colours of each row. Long lists of data become much easier to read!

#### Navigation Pane

The Navigation Pane is an ever-present feature on the left side of the Access window. It contains a listing of all objects currently contained in the database. The Navigation Pane can also be collapsed to make more room in the window.

#### **Embedded Macros**

Though macros go beyond the scope of this manual, macros in Access 2010 are stored inside a database object instead of being a separate object. This makes these macros much safer to use.

#### Newly Designed Help

Office 2010 makes wide use of Office Online, a resource on the Internet to find help on a certain topic. Access 2010 also has different help levels; if you are an end-user rather than a developer who makes database code, you can tailor the help file to search only the more basic topics.

#### **Increased and Enhanced Connectivity**

One of the goals of Office 2010 was to create a centralized location where members of your organization can meet and share data over the Internet. Though many of these features are more advanced topics of Access not covered in this manual, Access features a huge variety of SharePoint services. Access lets you:

Collect data from Microsoft Outlook Store and retrieve data on a SharePoint server Integrate with SharePoint Workflow services Retrieve data from linked SharePoint lists Store a SharePoint list offline for use away from your organization Create and save import or export operations if you perform the same online task multiple times

#### **Export Data to PDF or XPS**

You can export a form, report, or datasheet as a PDF (Portable Document Format) or XPS (XML Paper Specification) to easily print, post, and e-mail regardless of the computer platform your intended recipient(s) are using.



#### New Report View

Report view allows you to browse your report without having to print or preview it. You can also sort and filter records on the fly.

#### Enhanced Group, Sort, and Total Feature

You can apply new grouping and sorting levels much easier with Access 2010. Grouping is done following a natural sentence structure; you simply fill in the blanks along the way.

#### **Additional Security Features**

Though many of the security features go beyond the scope of this manual, Access 2010 (and indeed the entire Office 2010 suite) features a number of security enhancements and SharePoint services. This functionality includes: Enhanced security by disabling macros and code only until needed Revision tracking to see who modified what and when Permission setting to restrict data modification Restore deleted data from the SharePoint Recycle Bin in case of accidental deletion Open forms and reports using SharePoint even if Access is not open on your computer Keep track of changes made to memo fields

#### Access and Windows

The Microsoft Office packages were primarily designed to run in the Microsoft Windows operating system. Further iterations of the Office package have been ported for use in other operating systems, such as the Macintosh operating systems. Because the Office package is designed to run in a particular environment, it is also capable of using some features of the operating system (as well as being limited by some of the operating system's shortfalls!). In this lesson we will explore the operation of Access 2010 as a whole.

#### **Recovering Access**

Despite the best efforts of network administrators, programmers, and home users, there will inevitably come the time where something will go wrong. Viruses, spyware, power outages, and equipment failures can cause havoc if you are unprepared. However, you do have some tools available to use if you get stuck while using Access. Much of the data manipulation done in Access is saved automatically as soon as a particular operation has completed. For example, when you add data to a table, it is saved in the table as soon as the cursor moves to another field.

The other manual operations that can be performed in Access, such as the development of macros, forms and reports, must be saved by the user. However, Access does have a general AutoSave feature that is used every 10 minutes to save any work that has been done.

Task Status W Access 2010.docx - Microsoft Word Running Microsoft Access - Database 1 : Database (Acces Running		Processes	Services	Performance	e Netwo	rking	Users
Access 2010.docx - Microsoft Word Running	Task		×		-	Status	
	Constraint, State	s 2010.docx	- Microsoft	Word			
					(Acces		-

Should Access itself seem unresponsive, there might be a number of causes. If your computer is experiencing heavy network traffic or processor load, some operations regarding Access are placed in a priority queue. With the speed and capability of today's computers, this delay will likely be minor. Nonetheless, the best first option is to wait for a few moments. If you see no activity, try opening another program on your computer. If the other program does not start, then you computer is likely stuck in a processing loop somewhere.

#### Task Manager

Pressing **CTRL** + **ALT** + **DELETE** in the Windows 2000/XP environment will open the Task Manager. Check the Applications tab. should you see (Not Responding) beside Access or some other program, highlight the program in the list and click End Task. If you don't see any unresponsive programs, it may be a background process. Click the Processes tab. Scroll up and down through the list of processes. You see one program with a 99% CPU usage, that process is likely stuck. Highlight the process and click End Task.

If you manage to close Access without having to restart your computer, Access will have saved a backup file in the same folder as the original working file. The backup file will be named filename\_Backup.

If worst comes to worst and you cannot shut down Windows or end a process, you must physically power off or restart your computer.

#### Starting Access On Windows Boot

Microsoft Windows contains a special folder in which you can add a program shortcut to have that program start every time Windows starts. Your computer may already have certain programs that start when you computer starts, such as antivirus and instant messaging software.

### > <u>To have Access 2010 start when your computer starts.</u> <u>MOUSE</u>

- 1. Locate the icon you use to start Microsoft Access 2010 normally, such as in the Start Menu.
- 2. Right click on the icon, point to Send To, and then click Desktop:

- Distancy -				
Commandos II Corel VideoStudio 12 Cucusoft Video Conve DOSBox-0.72	Open Pin to Start M Add to Quick			
ESET	Restore previo	us versions		
FairUse Wizard 2	Send To.		. 0	Bluetooth device
Games Intel® Matrix Storage I K-Lite Codec Pack MagicDisc MagicISO Maintenance	Cut Copy Delete Rename			Compressed (zipped) Folder Desktop (create shortcut) Documents Fax Recipient Mail Recipient
Microsoft Office	Properties		D	MediaInfo
Microsoft Access 2010     Microsoft Excel 2010     Microsoft Excel 2010     Microsoft OneNote 20		Network Connect To		DVD RW Drive (D:) EXTERNAL300 (J:) Memory Stick (V:)
Microsoft Outlook 201     Microsoft PowerPoint     Microsoft Publisher 20	2010	Control Panel	1.0.	SD / MMC (W:) DVD RW Drive (Z:) BK2
Microsoft SharePoint	Workspace 20:	Default Program	ns	
Microsoft Office 2010	Tools -	Help and Suppo	brt	
1 Back	-	Run		
Start Search	P	• •	-	

3. Once the icon has been created, or if you already have an icon on your desktop, right-click the icon and select **CUT**:



4. Browse to the following folder on your computer:

C:\Documents and Settings\<Your User Name>\Start Menu\Programs\Startup

#### OR IN VISTA

C:\Users\<Your User Name>\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Startup

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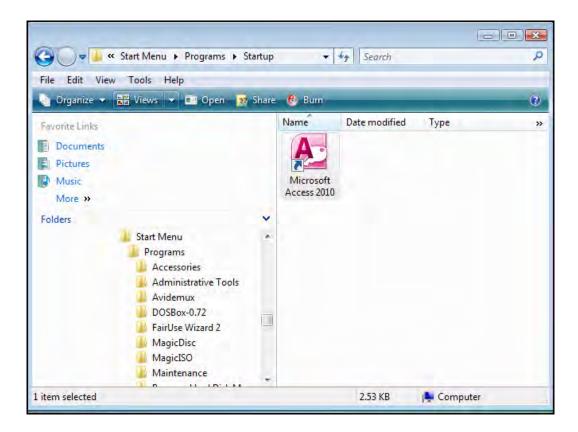
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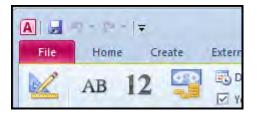
5. Paste the icon into the folder:



6. Every time your computer starts, Access will start as well. You can do this for any program on your computer.

But be careful – adding too many programs will significantly lengthen the time needed to boot your computer. Plus, if you want to use your computer for a presentation or something other than the programs in the Startup folder, you must first wait for all of the programs to open before you can close them and free up system resources.

### Using the Quick Access Toolbar



In the previous lesson, we introduced the new layout changes to Access 2010. In this section, we will learn a little bit more about each part of the new interface and how it works. This lesson will focus on features and customization options available with the Quick Access toolbar, located in the upper left-hand corner of the screen:

#### About The Default Buttons

Access features three default commands in the Quick Access toolbar:

Save 😼

Saves the most recent changes to the current database file.

Print 📑

Opens the Print dialogue box allowing you to adjust different print settings.

Undo 🧐 🔹

The Undo command will revert most changes made in Access. For example, if you made a formatting change to a form that you were not happy with, click the Undo button to go back one command.

There is a small pull-down arrow beside the Undo button; click this to see a listing of the last few tasks that were performed. Click any task in the list to undo all commands to that point.

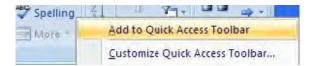
#### **Adding Buttons**

As you become more familiar with Access you might find it handy to have another command quickly available for use. Though the command tabs and ribbon significantly reduce the number of clicks it takes to do something, you might want to have a particular command always available. Access allows you to add the command to the Quick Access toolbar.



For example, some of us have difficulty with spelling. Fortunately, many programs (including Access) feature a spell checking feature. In Access 2010, the spell checking feature is located in the Records section of the Home command tab:

### <u>To add this command to the Quick Access toolbar</u>, <u>MOUSE</u>



1. Right-click the Spelling command and click 'ADD TO QUICK ACCESS TOOLBAR:'



2. The command (denoted by the small 'ABC' icon) will be placed in the QUICK ACCESS toolbar:

#### **Removing Buttons**



If you no longer use a certain command or your Quick Access toolbar is getting a bit too filled with icons, you can remove them easily at any time.



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#### > <u>To remove a button</u> MOUSE

3. Right-click on any icon you no longer use and click REMOVE FROM QUICK ACCESS TOOLBAR:

#### Customizing The Toolbar



As you gain familiarity with Access (and other Office 2010 programs) you have the ability to customize how the Quick Access toolbar looks all at once versus having to add icons one by one. To do this, click the small pull-down arrow ( ) located on the far right of the Quick Access toolbar and click More Commands:

Note that you can click any command listed here to add that command to the toolbar. The commands that are already checked are those on the toolbar; simply click them to remove them.

### <u>To customise the toolbar</u> <u>MOUSE</u>

1. When you click **MORE COMMANDS**, the Customize dialogue box (found in the Access Options) appears:

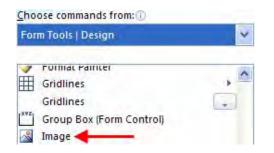
General	Customize the Quick Access Toolbar.	
urrent Database	Choose commands from: ()	Customize Quick Access Toolbar:
atasheet	Popular Commands	For all documents (default)
bject Designers		
	<separator></separator>	Save
roofing	Ascending	J Undo
inguage	Close Database	C* Redo +
lient Settings	Close Master View	Spelling
lient Settings	Сору	
ustomize Ribbon	🔏 Cut	
uick Access Toolbar	Datasheet View	
UICK ACCESS TOOIDAL	× Delete	
dd-ins	Delete Record	
rust Center	ZA↓ Descending	
rust Center	Cesign View	
	De E-mail Add >	**
	Export to Excel spreadsheet	
	A Find << <u>R</u> en	nove
	Font IT	
	A Font Color	
	Font Size	
	Form View	
	I Format Painter	
	A Import Access database	
	Import Excel spreadsheet	
	Layout View	
	Manage Replies	- Charalter
	Mode +	Modify
	Show Quick Access Toolbar below the	Customizations: Reset 🔻 🕖
	Ribbon	Import/Export 🔻 🕕

This window gives you the ability to add any of the functionality from any command tab or contextual tab you like to the Quick Access toolbar.

2. Click the pull-down arrow beside the CHOOSE COMMANDS FROM combo box:

Popular Commands	-
Popular Commands	
Commands Not in the Ribbon	
All Commands	
Macros	
*******	
File Tab	
Print Preview Tab	
Home Tab	
Create Tab	
External Data Tab	
Database Tools Tab	E
Source Control Tab	
Add-Ins Tab	
Form Layout Tools   Design Tab	
Form Layout Tools   Arrange Tab	
Form Layout Tools   Format Tab	
Form Design Tools   Design Tab	
Form Design Tools   Arrange Tab	
Form Design Tools   Format Tab	
Report Layout Tools   Design Tab	
Report Layout Tools   Arrange Tab	
Report Layout Tools   Format Tab	
Report Layout Tools   Page Setup Tab	
Report Design Tools   Design Tab	
Report Design Tools   Arrange Tab	
Report Design Tools   Format Tab	
Report Design Tools   Page Setup Tab	
Relationship Tools   Design Tab	
Query Tools   Design Tab	

- 3. The first category (File Tab) is all commands accessible via the File Tab. The next seven tabs are the main command tabs, the majority of which are visible when working in Access. (Some command tabs might not be visible at the time, depending on what you are doing with your database.) The third section of options are all of the contextual tabs that appear only when you are working with a specific database object The final section deals with macro commands, other miscellaneous commands, and a listing of every command in Access.
- 4. Pick a listing from a particular category in order to see the commands it contains. For example, imagine you are going to make heavy use of pictures and diagrams in a database form. To do this, you will need to import each picture one at a time. Therefore, you may find it easier to add the **INSERT IMAGE** icon to the Quick Access toolbar so it is always accessible.
- 5. Select the FORM TOOLS DESIGN option and then scroll down the list of options until you find IMAGE:



6. Click the Image icon to highlight it and then click the **ADD** >>button located in the middle of the window:

Choose commands from: ①		Customize Quick Access Toolbar: 🕜	_
Form Tools   Design	*	For all documents (default)	~
<ul> <li>Format Painter</li> <li>Gridlines</li> <li>Gridlines</li> <li>Group Box (Form Control)</li> <li>Insert Activex Control</li> <li>Insert Activex Control</li> <li>Insert Page</li> <li>Insert Page Break</li> <li>Insert Page Number</li> <li>Italic</li> <li>Label (Form Control)</li> <li>Layout View</li> <li>Line</li> <li>Line Color</li> <li>Line Thickness</li> <li>Line Type</li> <li>List Box (Form Control)</li> <li>Logo</li> <li>Mode</li> <li>Option Button (Form Centrol)</li> <li>PivotChart View</li> </ul>	Add > Remo		

- 7. This will add the Image tool to the Quick Access toolbar list on the right-hand side of the window. By default, the command is inserted at the bottom of the list (under the Undo command).
- 8. You can change the order of any icons in the list by selecting an item in the Quick Access toolbar list and then clicking the up and down buttons on the right side of the list. Simply click an item in the list you would like to move up or down and then click the corresponding directional button:
- 9. Items listed top to bottom will be displayed from left to right in the Quick Access Toolbar. To remove an icon from the list, select the icon and click the Remove button in the middle of the window.

Save Save Print Image Undo	
A Harda	
-7 01100	•

- 10. If at any point you want to return the Quick Access toolbar back to its original configuration, click the **RESET** button:
- 11. This will remove all icons except for the original three (Save, Print, and Undo).





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# Section 2 Understanding Access

#### BY THE END OF THIS SECTION YOU WILL BE ABLE TO

- Plan a database
- Create a database file
- Understand the terminology.
- Understand the tools and ribbons in access
- Understand and set basic options
- Find your way around a database
- Understand access basic security

#### What is Microsoft Access?

The primary function of Microsoft Office Access 2010 is an information management program. Information is stored in separate lists called tables, and information in one table may relate to information in one or more other tables. These groups of information, when considered together as a whole, become a database.

Access is designed to use the data in these databases to extract the information relevant to your situation. Access can also generate reports (such as quarterly sales by each employee) based on the data contained in the database. The Office 2010 package also features a lot of interconnectivity between the various programs, including a newly designed SharePoint service that lets users in your organization connect and share information using a special data centre via the Internet.

#### Consider the following diagram showing an open database:

I III IIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Exter	nal Data		dd-Ins Fields	Table	wind1 : Database (Access 20			
View Clipboard	1 1 1	I AL De	cending 🏼 🖓 Selectio escending 🚰 Advance move Soft 🐨 Toggle 1 Sort & Filter	ed v Defrech	New Σ Totals Save Spellin Delate → ∰ More Records	ng Go To *	Calibri + 11 B J U 岸岸 川 - A * ジ 公 * 美 三 Text Formatting	13 13   ■ + ■   ■ +	
All Access Objects 🔹 👻	~	Custom	iers						4
Search	0	ID		Last Name 🔹	First Name 🔹	E-mail Address •	Job Title 🔹	Business Ph 🔹	Hom
Tables		Đ	Company A	Bedecs	Anna		Owner	(123)555-0100	
Customers		Đ	2 Company B	Gratacos Solso				(123)555-0100	
Employee Privileges		(±	3 Company C	Axen	Thomas		Purchasing Representati		
Employees		±.	4 Company D	Lee	Christina		Purchasing Manager	(123)555-0100	
=		÷	5 Company E	O'Donnell	Martin			(123)555-0100	
Inventory Transaction Types		÷	6 Company F	Pérez-Olaeta	Francisco		Purchasing Manager	(123)555-0100	
Inventory Transactions		÷	7 Company G	Xie	Ming-Yang			(123)555-0100	
Invoices		÷	8 Company H	Andersen	Elizabeth		Purchasing Representati	(123)555-0100	
Order Details		÷	9 Company I	Mortensen	Sven			(123)555-0100	
Order Details Status		÷	10 Company J	Wacker	Roland		Purchasing Manager	(123)555-0100	
		÷	11 Company K	Krschne	Peter		Purchasing Manager	(123)555-0100	
Orders	=		12 Company L	Edwards	John		Purchasing Manager	(123)555-0100	
Orders Status		±	13 Company M	Ludick	Andre		Purchasing Representati	(123)555-0100	
Orders Tax Status		÷	14 Company N	Grilo	Carlos		Purchasing Representati	(123)555-0100	
Privileges		±.	15 Company O	Kupkova	Helena		Purchasing Manager	(123)555-0100	
		÷	16 Company P	Goldschmidt	Daniel		Purchasing Representati	(123)555-0100	
		Ŧ	17 Company Q	Bagel	Jean Philippe		Owner	(123)555-0100	
Purchase Order Details		÷	18 Company R	Autier Miconi	Catherine		Purchasing Representati	(123)555-0100	
Purchase Order Status		÷	19 Company S	Eggerer	Alexander		Accounting Assistant	(123)555-0100	
Purchase Orders		÷	20 Company T	Li	George		Purchasing Manager	(123)555-0100	
Sales Reports		÷	21 Company U	Tham	Bernard		Accounting Manager	(123)555-0100	
=		÷	22 Company V	Ramos	Luciana		Purchasing Assistant	(123)555-0100	
Shippers		÷	23 Company W	Entin	Michael		Purchasing Manager	(123)555-0100	
Strings 5		÷	24 Company X	Hasselberg	Jonas		Owner	(123)555-0100	
I Suppliers		÷	25 Company Y	Rodman	John		Purchasing Manager	(123)555-0100	
Queries X	T	Record: H	1 of 29 🕨 🕨 🌬	No Filter S	earch 4	101			

The new interface design of Access 2010 makes it easy for novice and expert users alike to get working right away. Now that we know a little bit more about the Getting Started page, let's examine the major pieces of the interface that is visible when a file is opened.

In this diagram, we can see the File Tab and Quick Access toolbar present in the upper left-hand corner. At the bottom of the diagram is the Status bar, telling us that we are currently viewing a table in Datasheet view. Now let's explore the real power of Access 2010, including the use of tabs and the ribbon.

# Using the Getting Started Window

The Getting Started window appears every time you open Access without directly opening a file, or after you close an opened database without actually closing Access. Before you have your own established database(s) you can work on, you will likely visit this page every time you want to create a new database or check out the latest information about Access 2010 using Microsoft Office Online.

In this section, we will learn about the Access starting screen and the view of a typical working database. We will introduce the views piece by piece in this section of the lesson. There are a large number of updates to learn about, but with time you will wonder how you ever managed without them! If you have ever used Access before, the welcome screen for Microsoft Access 2010 has been completely redesigned. However, the layout is much easier to use, especially if you have never used Access before:

#### Creating A Database From A Template

When you launch Access 2010, you will see the Getting Started page. From here you can choose from a number of different templates already built into Access. Choose a category in the main part of the screen:

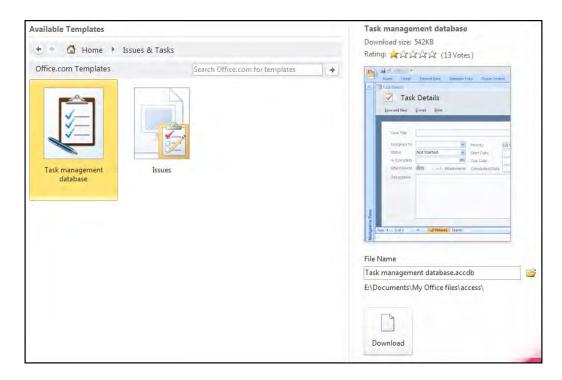




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Then choose a template that best suits your needs from the centre of the window:

Once you have chosen a template, choose a save location (default of My Documents) and then click Download/Open (depending on if you are opening from an online or offline template):



The template will open containing a number of pre-built database objects, including tables and relationships between the tables. Start entering data or modify the design of the objects as you see fit.

#### Using A Template

# To use a template. MOUSE

1. Choose a category in the main window. For our purposes, let's start off with something basic. Access contains a straightforward Contact database.

	Search Office.com for templates	+	Download size: 608KB Rating: 2022 (0 Votes)	
er	Contacts		File Name	
			Contacts.accdb	
			E\Documents\My Office files\access\	

- 2. Click the Contacts group and you will be navigated to the kinds of contact database that Access can create select the contacts database to prepare to open it:
- 3. Details about the template will be shown on the right-hand side of the screen, click the Download button to download it from Office Online and open it. When the template opens, close the Access Help window that appears.
- 4. In the template open the Contacts form which allows you to enter your own contacts one by one into the database. That's all there is to creating a database from a template! All of the objects are already established; all that is required now is for you to enter your data.

View Paste Format Paint Views Clipboard	ter Ta	Filter	All + Delete - More + Records	Find Select * A	+ ﷺ = ∰ + 📑 ा =    Text Formatting	·
All Access Objects	~	Contacts				×
Search	2	New Contact			Search	٩
ContactsExtended		ID + First Name + Last * (New)	t Name 🔹 Email Addı	ress 🔹 Job Title	• Company •	Business Phone
ContactDetails						
ContactList						
DefaultImage						

#### Creating A Blank Database

File Name	
File Name Database5.accdb	
Database5.accdb	
Database5.accdb	
Database5.accdb	i
File Name Database5.accdb E:\Documents\My Office files\access	

Although Access contains a number of templates already built in, However, if you prefer to construct your database from the ground up, doing so is easy with only a few clicks. it is important to understand how to create a database from scratch.



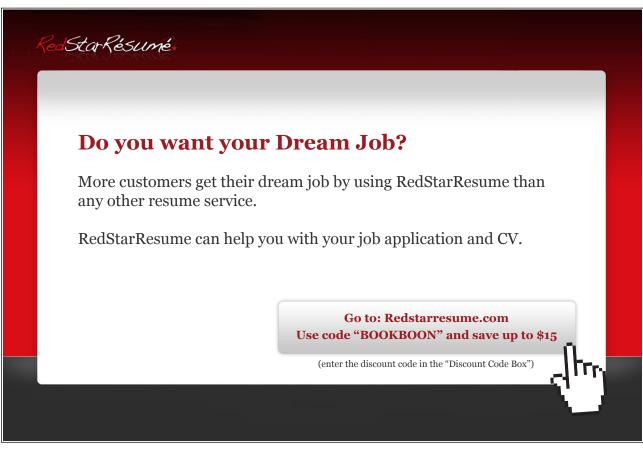
# <u>To create a blank database</u> MOUSE

- 1. Go to the FILE tab if you are already within access and go to new to see the getting started page.
- 2. From the Getting Started page, click **BLANK DATABASE** From the suggested choices:
- 3. On the right-hand side of the screen, give the new database a name by typing it into the **FILE NAME** box. If you want to create the database in a specific location, click the small folder icon ( ) to the right of the text box. The new file path you select will be shown underneath the **FILE NAME** text box; Access will by default use the My Documents folder:
- 4. Finally, click the **CREATE** button. The new empty database will open with a single empty table contained inside:

Please click the advert

5. Now you know how easy it is to get started with a new database using Access. Later in this manual we will explore the usage of the different objects contained inside, as well as how to properly enter data into a database, or more properly, populate a database.

A → → → → → File Home Create Ext.	rnal Data Database Tools Add-Ins	Table Tools Database1 : Database (Ac
AB 12	Date & Time Ves/No More Fields > Delate	Modify Modify Memo Lookups Expression Settings %
All Access Objects 🔹 👻	Table1	
Search	ID → Click to Add → * (New)	
Tables 🖈		



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#### Using Database Objects

A database object is defined as some individual piece of a database that can be used on its own. We have discussed the major objects: tables, queries, forms, reports, and macros.



The Navigation Pane is used to control and use the objects of an Access 2010 database.

# To view database objects

#### MOUSE

- 1. Expand the Navigation Pane ( 🕺 ) and click the pull-down arrow beside the title to show the full Navigation Pane toolbar.
- 2. Then, click **OBJECT TYPE** to display all objects currently in the database:
- 3. All objects currently in the database are categorized by their object type:

All Access Objects	• «
Tables	*
Queries	¥
Forms	*
Reports	¥
Macros	¥
Modules	*

- 4. If you want to see the different objects in each category, click <sup>≥</sup> to expand that category. Each object contained in each category is listed in alphabetical order:
- 5. To open an object, simply double-click it. It will open in the main part of the Access window and will have its own identifying tab.

All Access Objects 🛛 👻 «	E Home	Employee Phone Book			
Tables ×	1	4			
Queries 🛛 🖇	Entr	oloyee Phone Book		> Thu	rsday, June 29, 2006 1:32:57 PM
Forms ¥	Chik	bloyee Flione Book			
Reports 🌣	1				
Customer Address Book	File As	Employee Name	Business Phone	Home Phone	Mobile Phone
Customer Phone Book	C				
Employee Address Book	C				
Employee Phone Book		Andrew Cencini	(123)456-7890	(123)456-7890	
Inventory Restocking Report	F				
Invoice		Nancy Freehafer	(123)456-7890	(123)456-7890	
Monthly Sales Report	C				
Product Category Sales by Mo	G				
Product Sales by Category		Laura Giussani	(123)456-7890	(123)456-7890	

- 6. Some objects, such as the report, include a time and date stamp right on the object:
- 7. Access lets you rename or delete objects in your database. However in order to do so, the object must first be closed.
- <u>To delete or rename an object,</u> <u>MOUSE</u>



- 1. You can do so by making use of right-clicking. To do this, Point to an object and click the right mouse button. A drop down menu will appear giving you quick access to certain commands:
- 2. If you click **RENAME**, simply type a new name for the object, and then press **ENTER**:

Monthly Sales Report

- 3. If you need to delete an object, Access warns you that the delete operation cannot be undone:
- 4. Click 'Yes' to delete the selected object.



#### Setting Navigation Options

Access 2010 also gives you full ability to customize the Navigation Pane.

# <u>To set the navigation options</u>, <u>MOUSE</u>



- 1. Right click on the title bar of the Navigation Pane and click NAVIGATION OPTIONS:
- 2. The Navigation Options dialogue box will appear.
- 3. The following dialogue box is taken from the Northwind Sample database:
- 4. This dialogue box contains three main parts: a category list, a group list, and a few other options.

	TA IN AR		
Navigation	Options		? <b>×</b>
Grouping C	Options		
	Click on a Category to change the Category display	order or to add groups	
	Categories	Groups for "Tables and Related Views"	
	Tables and Related Views	Employees	
	Object Type	Shippers	
	Northwind Traders	Customers	
		✓ Orders	
		Products	
		☑ Orders Status	
		☑ Order Details	
		✓ Order Details Status	
	Add Item Delete Item Rename Item	Add Group	
Display Op	tions	Open Objects with	
Show	Hidden Objects 🔲 Show System Objects	Single-click O Double-click	
Show	Search <u>B</u> ar		
		ОК	Cancel

5. The first two options in the Categories list are fixed (Tables and Related Views and Object Type). However, you can create as many custom categories as you like. For example, the Northwind Traders category was added specifically for this database.

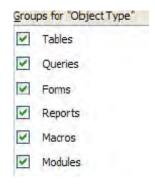
Try this... AllOptions Please click the advert The sequence 2,4,6,8,10,12,14,16,... is the sequence of even whole numbers. The 100th place in this sequence is the number...? Challenging? Not challenging? Try more ►► www.alloptions.nl/life

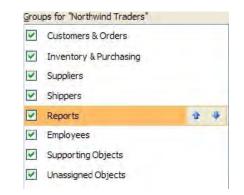
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Tables and Re	lated Views	
Object Type		
Custom Categ	lory 1	+
Northwind Tra	ders	🔮 🖶
Custom Categ	lory 2	

- 6. If you highlight the custom category, you have the ability to move it up and down through any custom categories you may have created:
- 7. Use the **DELETE ITEM** and **RENAME ITEM** buttons at the bottom of the categories list to perform the associated action on the selected category. If you ever need to delete a category, the objects that were in the category will not be deleted.
- 8. On the right-hand side of the Navigation Options dialogue box is a list of groups that are included in a category. For example, the groups contained in the Object Type category we have already used previously in this manual:
- 9. Highlighting the Northwind Traders category will display all of the custom groups used in the category:
- Note that there is one group that is always present in a custom category: Unassigned Objects.

The options at the bottom of the dialogue box give you a bit more flexibility when it comes to the displaying of objects:





#### Show Hidden Objects

If you find your database growing to a level that can be a bit hard to manage, you have the ability to hide certain objects. This means that they simply won't be shown in the Navigation Pane and can make it easier to find the object you need. Checking this check box will override any Hide command that you give to an object.

#### Show System Objects

There are some background objects and tables that Access uses when you are using a database. Check this box to display them.

Show Search Bar

Northwind Traders	
Search	9

If you end up with a very large and complex database, and would rather not hide any objects, you can use the small, simple search bar which will then appear at the top of the Navigation Pane:

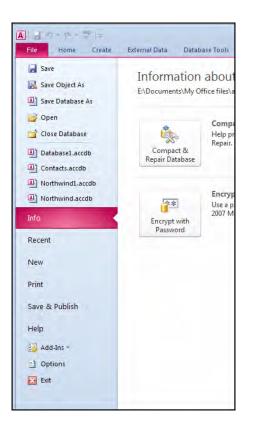


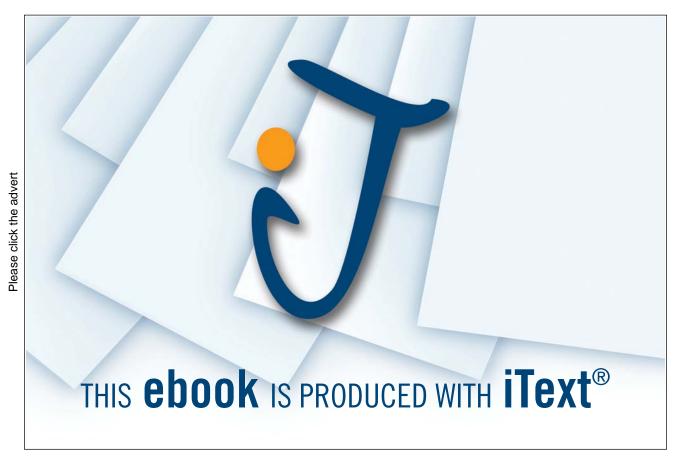
Enter the name of the object you are searching for. As you type, Access will automatically filter the different objects based on the keyword you are inputting.

The search bar does not, however, give you a direct list of results. Instead it filters the relevant names for each group as you type. For example, if you know the object you are looking for includes the word 'order', begin typing it into the search bar. Access will show you all of the relevant results:

Lastly, you have the option to open an object from the Navigation Pane using either a single click (like a Web page hyperlink) or double-click (default).

# The File Ribbon





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The File Tab (Backstage) should be pretty familiar to you now. We have learned that you can open and close files, modify the Access program options, and close Access; all by using the File Tab (Backstage). If you have used Access in the past, the File Tab (Backstage) is very similar in functionality to the File menu in previous versions. Or Office menu in office 2007

Let's take a look at the commands in the File Tab (Backstage).

#### Open

Opens a dialogue box allowing you to search your computer or network for a file.

#### Save

Saves any modifications you have made to the current database object.

#### Save Object As

Allows you to save the currently open object under a different object name within the current database.

Save As	? 💌
Save 'Table1' to: Copy of Table1	
As	
Table	
	OK Cancel

#### Save Database As

Allows you to save the currently open database object under another name. This is useful if you want to perform a major revision or update to a particular object.

#### Print

Clicking on the print option in backstage offers three options



**QUICK PRINT** sends any open object and its data directly to the printer. This can be a dangerous option to choose if you have not previously seen how the data will appear in printed form as this choice will give no options for allowing changes to layout or to where it will be printed it sends to the default printer

**PRINT** opens the print dialogue to allow the choosing of a printer and various other options such as the range of data to be printed.

**PRINT PREVIEW** allows the viewing of the data in its future printed form to allow changes to be made prior to it being printed the data will appear a little like page layout in word

We will look deeper into printing at various stages within the manual.

#### New

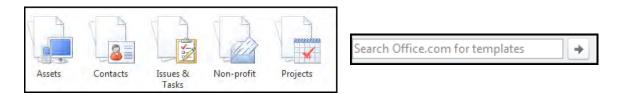
This will open the Getting Started page. Click Blank Database to create a new empty database file. and to close any currently open database files

	Microsoft Access External Data Database Tools Add-Ins	82 🗉 😅 ()
File       Home       Create       R         File       Home       Create       R         Save       Save       Save       Save         Save       Save       Save       Save         Save       Save       Save       Save         Save       Databases       Save       Save         Database       Movie.accdb       Movie.accdb       Save         Database3.accdb       Database3.accdb       Save         Struet_Structure       New       Print.       Save_A         Print.       Save_A       Fublich       Help         Add-Ins        Toptions       Diatabase       Save_A		Blank database

Exploring The Access 2010 Getting Started Interface:

#### Microsoft Office Online (Office.Com)

The centre of the Access window is a special page that extracts content from Microsoft Office Online (a service provided over the Internet). Microsoft Office Online provides quick links to different templates, training material, and other downloads. It also provides links directly to Office Online where you can read about updates to Office 2010 as they become available.

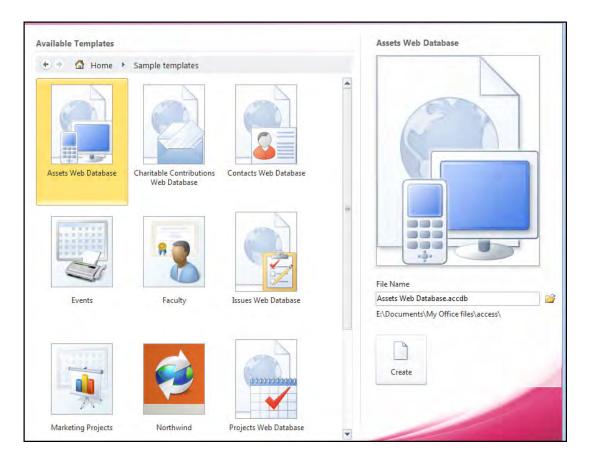


#### New Blank Database

In the centre of the window is a link to create a new Blank Database. Use this link to make your own database from scratch.

#### **Available Templates**

In the main part of the Access window are the accessible Template pane: Access has a number of templates built right into the program. To access those click on the sample templates. The different categories of templates are from office online and will show those templates you can download from the internet, simply click a category to see the available template files.





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\* Figures taken from London Business School's Masters in Management 2010 employment report

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#### **Recent Files**

The left-hand side of the window lists any recently opened database files, just like the Old File menu (2003) or office menu (2007: Click one of the database files to open the file.or click on the recent link on the left to show even more of your recently used files. If you want to open a database file stored somewhere else on your computer or on another network, click the More link and browse to the file you want to open, and then click the Open button.

#### **Closing Microsoft Access**

When you have finished using Access, click either **FILE** Tab, **EXIT ACCESS** or click the program's close button ( $\times$ ) in the upper-right hand side of the Access window. If you have any unsaved work still open, Access will allow you to save any changes you have made before the program shuts down.

#### Save And Publish

■ 1 = 10 × 04 × 25   ↓		Movie Database	0	• •
File Home Create	External Data Database Tools Add-Ins			~ 0
Save	File Types	Save Database As		
Save Database As	A Save Database As	Database File Types		
Dpen	Save Object As	Access Database (*.accdb) Default database format.	Access 2002-2003 Database (*.mdb) Save a copy that will be compatible with Access 2002-2003.	
Close Database	Publish	Access 2000 Database (*.mdb) Save a copy that will be compatible with Access 2000.	Template (*.accdt) Save the current database as a database template (ACCDT).	
<ul> <li>Database1.accdb</li> <li>Contacts.accdb</li> </ul>	Publish to Access Services	Advanced	A Make ACCDE	
Northwind1.accdb	Package and Distribute	Package the database and apply a digital signature.	File will be compiled into an executable only file.	
Info Recent	Package Solution	Back Up Database Back up important databases regularly to prevent data loss.	SharePoint Share the database by saving it to a document management server.	
New		Save As		
Print		Dave As		
Save & Publish				
Help				
🛃 Add-Ins 🕋				

#### **Back Up Database**

makes a copy of your entire database file for safe keeping.

#### Sharepoint

Save the database to a sharepoint service location

#### Save options

There are several options here to save your file in various formats select the option on the right and click the save as button to open the save as dialogue with the various option selected.

#### Publish to access services

Allows the publishing to websites using access databases

#### Info

This menu option gives you Three choices:



#### **Compact and Repair Database**

is useful if you are planning to send the database to another person so they can work on it. This command checks the file for errors and compresses the file size a bit by eliminating wasted space. (If you have ever defragmented a hard drive before, the principle is the same.)

#### **Encrypt With Password**

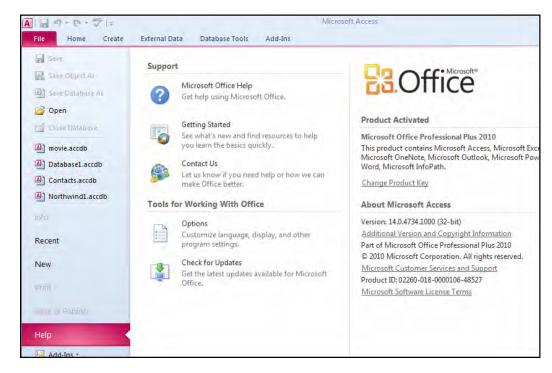
Put a password on your database to protect your data from unauthorised access. (record any passwords created somewhere as this secures your database and losing passwords means losing data.

#### **Database Properties**

Following the link on the top right allows you to modify and view characteristics specific to your database:

# Help

In File Tab



The Help here allows you to check on the status of the access product and check for updates it also gives you another point to connect with the help window as well as using the Help button.



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0

The **HELP** button, located directly under the title bar, launches the Access help screen:

Click a topic to view help about that particular subject.

Enter a piece of text in the search bar and search for help on that topic.

As we explore more of the features and functionality of Access, we will discover how to use the rest of the interface.

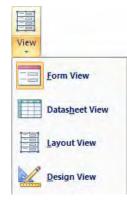
# The Home Ribbon

In the following lessons we will explore what commands are included in each command tab and their function. We will start with the **HOME** command tab and ribbon, which contains most of the commonly used commands for databases and working with data using Access. Remember, this is just an overview; don't worry if you don't understand what particular commands do. This is just so you know where to find a command when we begin discussing it.

File	Home Create E	External Data Database Tools Add-In	s Fields Table		۵ 🕜
View	Paste J Format Painter	Filter	Refresh All + ★ Delete + ₩ +	Find Size to Switch A + aby - 3	<ul> <li>▼11</li> <li>▼注記</li> <li>注意   m ·   ■ ·</li> <li>▲ ·   事 書 書   Ⅲ ·</li> </ul>
Views	Clipboard	Sort & Filter	Records	Find Window Te	t Formatting a

Views

<u>To Change views</u>
 <u>MOUSE</u>



- 1. Click the **VIEWS** command to cycle through the different views available for each object. (The type of views available will differ depending on the object that is currently open.)
- 2. You can also click the small down arrow underneath the word **VIEW** to see all of the available views:

#### Clipboard

The Clipboard is a special part of the memory of your computer. It is designed to hold an object in temporary memory until it is either placed somewhere else or copied over when a new item enters memory. Before the newer versions of the Windows operating system, a computer could only hold one item at a time in memory. The Office packages have expanded this to a full twenty-four objects whether it is text, spreadsheet data, pictures, or some other piece of data. Items are placed on the clipboard either by selecting some text or object and pressing Ctrl + C on your keyboard. Ctrl + V will paste the object to a new location.

Access 2010 gives you full control of the clipboard on your computer. Select an item and use either the Cut or Copy command, followed by the Paste command. The other command in the Clipboard section of the ribbon (marked Format Painter) is only applicable when designing forms or reports and will be covered later.



# ➤ To Access the clipboard MOUSE



- 1. Click the CLIPBOARDDialogue box button (circled in red above) to expand the clipboard and its contents:
- 2. You can empty the clipboard at any time by clicking the **CLEAR ALL** button.

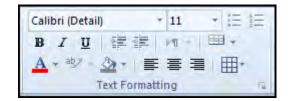
#### <u>OR,</u>

1. Delete individual items by right-clicking on an item and selecting DELETE.

#### **Text Formatting**

The Font section of the Home ribbon contains all the commands you need to modify how a font looks:

Any of the options that have a small pull-down arrow contain more options than a simple toggle on and off; click the pull-down arrow to see all available options. You can also use the Dialogue box Launcher button in the lower right-hand corner to expand different formatting options for a particular database object.



#### Text formatting dialogue

This dialogue is for a table (datasheet view object) options may vary dependant on the object and view.

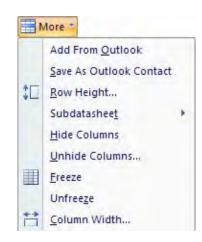
Datasheet Formatting		? 💌
Cell Effect Iat Raised Sunken	Gridlines Shown Gridlines Sh	OK Cancel
Background Color:	Alternate Background Color:	Gridline Color:
Sample:		
Border and Line Styles Datasheet Border	▼ Solid	•
Direction	🔘 Right-to-left	

#### Records

The **RECORDS** section of the **HOME** ribbon deals with basic data management:



The **REFRESH ALL** command is designed to re-retrieve all the information from the database file. This option becomes particularly useful if your database includes any external data sources (explained later in this manual). If you only want to refresh the data for the current object, click the small pull-down arrow beside the Refresh All command and select Refresh.



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The other commands will generate a new record in the object, save any record changes, delete a record, apply a calculation field like sum or average, and check the spelling of the current object.

Clicking the pull-down arrow beside the **MORE** command will show a small menu of more commands that can be performed on the current object:

We will explore some of these commands later in this manual.

#### Sort And Filter

The SORT & FILTER section of the Home ribbon will apply some sort of organizational method to a database object:

	A Ascending	🎸 Selection 🐐				
E Harr	${}^{\mathbf{Z}}_{\mathbf{A}} \downarrow Descending$	Advanced -				
Filter	A Remove Sort	V Toggle Filter				
Sort & Filter						

For example, if you wanted to sort a list of names alphabetically, simply click the column header to select the entire column of names and then click the Sort **ASCENDING** command. (We will cover how to perform operations on a table of data later in this manual.)

#### Find

If your database should grow substantially in size some day, finding a particular value by hand quickly becomes impractical. Access features a Find command to track down the value you are looking for:

A	eac Replace				
	📫 Go To 👻				
Find	k Select ▼				
Find					

Simply enter the search criteria you are looking for and Access will search the current database object to retrieve the information you are looking for.

As an addition to the **FIND** command, Access can also replace certain values based on search criteria. For example, if you misspelled a place name or if someone's last name has changed, you can use the **REPLACE** command to find all instances of a value and replace it with something else.

Use the **GO TO** command to browse the various records that meet your search criteria. You also have the ability to select an entire row of data containing a 'found' value or select the entire object containing the found value(s).

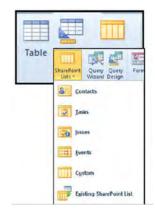
### **Create Ribbon**

We continue in this section with our exploration of the next main ribbon, the Create Ribbon. The Create ribbon is used to make new database objects:

File	Home	Create	Externa	al Data	Datab	ase Tools	Ad	d-Ins	Fields Table				
Application Parts *	Table	Table Design	SharePoint Lists *	Query Wizard	Query Design	Form	Form Design	Blank Form	Form Wizard	port Blank		Macro	💸 Module 🔀 Class Module 🔛 Visual Basic
Templates		Table	5	Que	ries			Forms		Repo	orts	M	lacros & Code

#### Tables

Tables are the main objects used in databases. (Without tables, and thus without data, you don't have much of a database!) We learned in Section 1 of this manual that a table contains one or more records (or rows of data) and a record contains one or more fields. So, use this section of the ribbon to create the tables you need in order to store the data for your database. Let's look at the different options in this section.



#### Table

This will open a new empty table in Datasheet view. You can directly enter data into the field this way or enter Design view to modify the structure of the table by hand.

#### Sharepoint Lists

SharePoint Lists are a bit beyond the scope of this manual. Essentially they are tables of data that can be linked to another table stored on a SharePoint server across the room or across the world.

# > To create a sharepoint list

#### MOUSE

- 1. Use the small pull-down arrow to select a table template from the list of options:
- 2. You must enter a sharepoint location before using this feature when entered. A new table template opens in Datasheet view with a number of pre-defined columns. You can start entering data into the table right away.

Create a contacts list when you want to manage information about people that your team works with such as customers or partners. You can share information between your contacts list and Microsoft SharePoint Foundation-compatible contacts programs. Specify a SharePoint site: <enter here="" sharepoint="" site=""> Specify a name for the new list. <specify a="" create="" for="" here="" name="" objet="" the="" to="" wish="" you=""> Description:</specify></enter>	te New List			?
<pre><enter here="" sharepoint="" site=""> Specify a name for the new list. <specify a="" create="" for="" here="" name="" objet="" the="" to="" wish="" you=""> Description:</specify></enter></pre>	Contacts			
Specify a SharePoint site: <enter here="" sharepoint="" site=""> Specify a name for the new list. <specify a="" create="" for="" here="" name="" obje¦t="" the="" to="" wish="" you=""> Description:</specify></enter>				s or partners. You can
Specify a name for the new list. <specify a="" create="" for="" here="" name="" obje¦t="" the="" to="" wish="" you=""> </specify>		crosoft SharePoint Foundation-co	mpatible contacts programs.	
Specify a name for the object you wish to create here> Description:           Image: Comparison of the list when finished           Image: Comparison of the list when finished           Note: Exporting a table to the SharePoint site will move all related tables as well.	<enter here="" sharepoint="" site=""></enter>			
☑ Open the list when finished Note: Exporting a table to the SharePoint site will move all related tables as well.	Specify a name for the new list.			
☑ Open the list when finished Note: Exporting a table to the SharePoint site will move all related tables as well.	<specify a="" create="" for="" h<="" name="" object="" td="" the="" to="" wish="" you=""><td>here&gt;</td><td></td><td></td></specify>	here>		
	Description:			
Note: Exporting a table to the SharePoint site will move all related tables as well.	2 Onen the list when finished			
		ove all related tables as well.		
			OK	Cancel



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#### **Table Design**

3. Clicking the TABLE DESIGN command opens a new empty table in Design View:

V Primary Builder Test Validation Key Tools	Insert Rows	Property Indexes Sheet Show/Hide	Create Data Rename/Delete Macros * Macro Field, Record & Table Events	Relationships Of Relationships Relationship
Access Objects	Table1			
TblGenre TblMovie TblMovies TblStar	Field	d Name	Data Type	
eries 🌣				

Here you can begin the custom construction of the table as you need it. We will explore more of the functionality of table Design view later in this manual.

#### Forms

Forms are a way of entering data into a table one record at a time. Forms in Access are comparable to paper forms you would fill out in an office. With a paper form, there is a space for each piece of data required, and once the form is filled out, it will get filed somewhere. The same is true in Access, as you need to have at least one table of data, query, or report in order to make proper use of a form. Use the commands in the Forms section of the Home ribbon to perform different form actions:



#### Form

Use this command to create a new form based on the last highlighted object in the Navigation Pane. Each field in the object will be made into a new field in the new form. (We will explore the use of forms later in this manual.)

#### Navigation

This command creates a special kind of form that lets you view more than one record at a time. Multiple item forms are very useful in certain situations.

#### **Blank Form**

Use this command to create a new empty form.

#### **More Forms**

This command features more advanced commands relevant to the use of forms, including the Form Wizard, used to help you create a form without having to build it manually:

#### Form Design

Clicking the Form Design command opens a new empty form in Design view. You can begin constructing a new form right away.

#### Form Wizard

This is a step by step tool allowing you to create a form quickly using existing table fields and inbulit formatting options

#### Reports

Reports are primarily used to summarize the data returned by a query. Reports can also be used to create a complete table contents listing suitable for printing.

Report Report Design	Blank Report	Report Wizard				
Reports						

#### Report

Clicking the Report button creates a very simple report based on the last highlighted object in the Navigation Pane. We will explore the use of reports later in this manual.

#### Labels

There is a good chance most of the databases you will use will have some sort of contact table containing names and addresses. Access features the ability to create a mailing list based on the data in a table.

#### **Blank Report**

This command opens an empty report.

#### **Report Wizard**

This command will walk you through the steps of creating a report based on another database object. The wizard will walk you through the placement of fields as well as a style and layout that works for you.

#### **Report Design**

This command will open a new blank report in Design View where you can start to manually build a form right away.



#### Queries

The Queries section of the Create ribbon is devoted to the construction of queries

#### Query Wizard

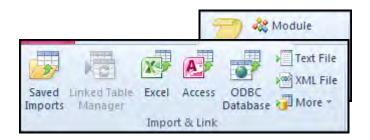
The Query Wizard will walk you through the steps of making a query without requiring any knowledge of database code like SQL (Structured Query Language). Simply pick the fields you want to display in your query and let Access do the rest.

#### Query Design

This command will open a new empty query in Design view where you can stipulate with more precision how you want to construct your query.

#### Macros & Code

Macros are a set of instructions that you can tell Access to perform. For example, if you are performing a fairly large task with many steps frequently in Access, you can design a macro. It works like a script given to a performer; they read the script and deliver the performance the same way each time.



The modules and visual Basic buttons in this section are designed for database programmers to have Access perform more advanced program functionality.

# External Data Ribbon

If you are just starting out with Access, chances are the majority of the databases you will use will be contained on a single machine. You will also likely enter most of the data by hand. This is fine for small databases, but Access gives you the ability to import data from nearly any source and from a wide variety of programs. In this lesson we will learn a little bit more about the External Data ribbon.



#### Import& Link

The Import& Link section allows you to bring in data from many different sources, including other Microsoft Office programs Or to be able to access the linked table manager to access and manage any tables that may be linked to other databases or Excel files.

#### Saved Imports

Allows you to retrieve information for a specific source many times. For example, if you extract information from a Microsoft Excel spreadsheet on a regular basis, you can choose to save the import operation so you don't need to set up the same import over and over again.

#### Linked Table Manager

This command is used to perform certain operations pertaining to any linked tables in your database.

#### Excel

The Excel command lets you import data from an Excel file or link to the data contained in a file.

#### Access

This command lets you import data from another Access file or link to the data contained in a file.

#### Text File



If you have a large amount of data that is in an organized structure, you can import that data directly into your database file and have Access format it for you.

#### XML File

Import the data from an XML (Extensible Mark-Up Language) file directly into a table in your database.



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#### More

Access 2010 features the ability to import data from other database programs. Click the appropriate file type command to start importing that particular type of file:

#### SharePoint List

Use this command to import data from a SharePoint list or link to the data contained in the list.

#### Export



In addition to being able to import data from a number of sources, Access can also export data to several different sources.

#### Saved Exports

If you frequently export data to a particular location or program, you can save the export operation for later use, thereby eliminating having to set up the export each time.

#### Excel

Export the data contained in an object to an Excel spreadsheet.

#### Text File

You can export the data contents from a database object to a plain text file that is usable on virtually any computing platform.

#### XML File

Xml Files use tagged data and can easily be used on the web or any application that allows the use of XML. XML is supported by a wide range of applications and is the standard data format for transporting or handling data outside of a database.

#### PDF or XPS

This option enables the contents of a database object to be distributed to others as a PDF or XPS files. This means you can see database objects without having the need for Access to be installed in every location. (This option may not be available if you have not downloaded and installed the PDF add-in from the Microsoft Web site.)

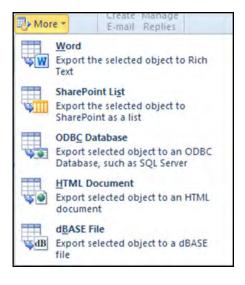
#### Email

This allows the sending of the data in a format of your choosing (spreadsheet xml etc) and is a one click solution to exporting your data outside of your organisation.

#### Access

Export your data or objects to another access database.

#### Word Merge



Use the merge facility to create mail merge documents utilising the fields and data within the selected table or query.

#### More

Access 2010 allows you to export to many other file types and locations through the use of the More command:

#### Word

Access allows you to export the contents of a database object to Rich Text Format (RTF) for use in Microsoft Word and other word processing applications.

#### SharePoint List

Export the data in a database object to a central SharePoint location.

#### Collect Data



One of the more powerful and convenient data collection services is the Collect Data portion of the External Data ribbon. Though the use of these commands is beyond the scope of this manual, their function is certainly worthwhile mentioning.

#### **Create E-Mail**

Use this command to send a self-contained form as an attachment in an e-mail. The recipient can enter some data into the form and then e-mail it back to you.

#### **Manage Replies**

This command is used to sort and store the incoming e-mail that you had distributed.

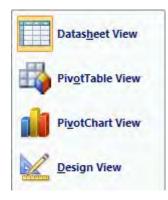


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# Viewing Data

We have used Access so far in a simple way, usually opening only one or two objects at a time. In this lesson we will learn a bit more about the different views available in Access as well as some other viewing management options.

Using The View Menus



We have and will make use of the View menu throughout this manual. The View menu is located in The **HOME** ribbon throughout Access and is different for each object you open.

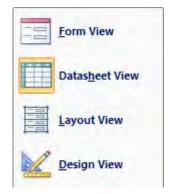
Table

DATASHEET view displays all data in a table in a columnar view.

**PIVOTTABLE AND PIVOTCHART** views they allow you to quickly and graphically compare the values in one field with another.

DESIGN view lets you modify the properties of a table to make it contain and display the data you need.

Form



FORM view lets you view the form in such a way that you can enter data one record at a time into a table.

DATASHEET view is a way of showing you the table that the form references.

**LAYOUT** view is an intermediate step between Form view and Design view. It lets you adjust the location of objects in a form while still being able to see the data it contains.

DESIGN view lets you modify the look and feel of a form as well as add different controls to perform actions.

Report

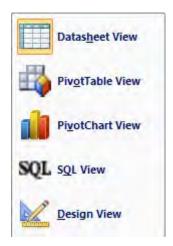


REPORT view displays the contents of the report in a manner suitable for printing or presenting.

**LAYOUT** view is an intermediate step between Report view and Design view. It lets you adjust the location of objects in a report while still being able to see the data it contains.

**DESIGN** view lets you modify the look and feel of a report as well as add different controls to display data or perform actions.

Query



DATASHEET view displays the results of a query in a view similar to a table.

PIVOTTABLE AND PIVOTCHART allow you to quickly and graphically compare the values in one field with another.

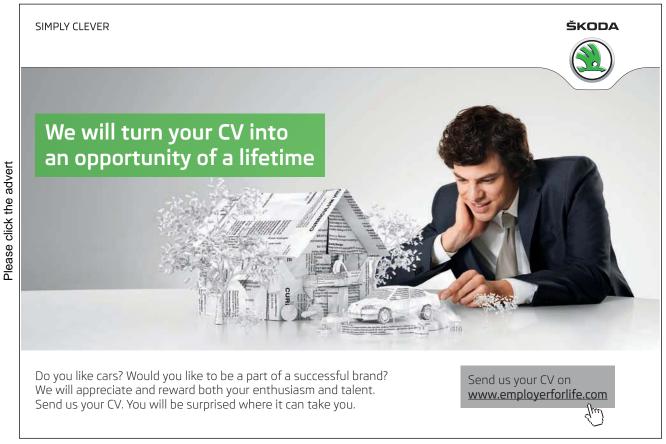
**SQL (STRUCTURED QUERY LANGUAGE)** view is a way of viewing and modifying the background 'code' used to make a query. SQL editing is beyond the scope of this manual.

**DESIGN** view lets you add and remove fields from the search as well as add criteria to retrieve more specific results. Many other options we will look into later are available in this view.

Using The View Icons

The **VIEW** menu has a cousin present in the very bottom right-hand corner of the Access window. For example, viewing a table in Datasheet view will show the following buttons:





These icons are exactly the same as the corresponding items in the View command. The view currently in use is highlighted in orange. If you hover your mouse over an icon to see its description:



# To use the view icons MOUSE

1. Click any of the icons to switch to that view.

### Database Tools Ribbon

The Database Tools ribbon is the last of the four main command ribbons. It contains most of the advanced and background commands used on an established database. We will explore the basics of this ribbon's functionality in this lesson.

File	Home	Cr	eate	External Data	Database To	ols	Add-Ins			
Compact an Repair Datab Tools		Visual Basic Ma	Run Macro		Object Dependencies onships	-	Database Documenter Analyze Performance Analyze Table Analyze	SQL Server	Access Database Move Da	Add-ins Add-Ins

#### Macro

We defined a macro earlier as a set of instructions you can save to use again and again on a database. A macro can be used to encompass nearly every command in Access, as well as extra functionality defined by a programmer.

#### **Visual Basic**



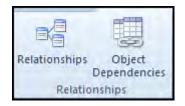
This command launches the Visual Basic editor. This program is used to develop VBA code (Visual Basic for Applications) designed to do background operations in a database.

#### Run Macro

This command will launch the RUN MACROdialogue box. Choose a macro from the combo box and click OK.

#### **Relationships**

The **RELATIONSHIPS** section of the ribbon is used to display some of the different characteristics that a database has:



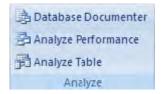
#### Relationships

Nearly every database that contains multiple tables also includes a relationship between the information contained in the database file. For example, if you work at a department store, each item likely has some department identification number associated with it (1, 2, 3, etc.). In the store database there is another table that lists the corresponding department name with a number (1 = ladies wear, 2 = furniture, 3 = kitchen & bath, etc.). The table of items and the table of departments share a relationship in that the values of one are related to the values of another. We will explore relationships later in this manual.

#### **Object Dependencies**

As you develop more relationships in your database and build more forms, reports, and queries, you will develop a large number of dependencies. That is, one object, such as a query, depends on many others in order to fulfil its job. Click this button to view these dependencies.

#### Analyze



The Analyze section of the ribbon is used to examine how your database is built and how will it will perform. Database performance, as well as the terminology and methodology behind it, is used mainly by database engineers. However, Access makes it easy to perform some optimizations to your data without you needing a PhD in computer science!

#### **Database Documenter**

The Database Documenter tool is used to thoroughly list every feature and property of a database object or group of objects.

#### **Analyze Performance**

This command is a special part of Access that can tell you where you may be able to make improvements to the design of your database. For example, if you end up with duplicate tables or a table, the analyzer can find these and suggest some optimizations to increase the performance of your database.

#### Analyze Table

This command launches the Table Analyzer Wizard. This tool works like the Analyze Performance command, but on a finer scale and one table at a time.

#### Move Data



The Move Data section of the ribbon is used to perform large scale move and split operations to a database. These commands are beyond the scope of this manual and should only be performed by IT professionals.

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#### SQL Server

This will move certain objects or an entire database to an external Microsoft SQL Server.

#### Access Database

In certain corporate situations, it may be useful to split up your database across two or more locations such that the tables are situated in one location and other database objects are in other locations. This command will open a wizard that will help you do just that.

#### Sharepoint

Move your data to a sharpoint list and creates links to that data.

Add-Ins



An add-in is a special type of third-party program or VBA code that is used to provide extra or specific functionality to the Access interface. If you are familiar with plug-ins used in an Internet browser, the principle is essentially the same.

Tools



The last section of the Database Tools ribbon dealsCompacting and repairing your database to allow the file size to be reduced and the repair of the connectivity within it to allow it to run trouble free.(programming errors cannot be repaired and must be repaired manually.)

# Using The "database" Tabs

In previous versions of Access, opening a new database object meant opening a new window. After only a few objects, your screen would be pretty full and finding objects 'hidden' under different windows was frustrating. Access 2010 eliminates that clutter. Each database object you open opens a new tab:

Simply

Home -P	roducts 🔢 🔂 Top Ten C	orders by Sales Amount	Supplier Ph	one Book
click a tab to view that o	object.			

If you happen to have many objects open at once, arrows will appear on either side of the list of tabs allowing you to scroll back and forth through the opened objects:

**Closing Individual Tabs** 



To close a database object, highlight its name in the list of tabs and then click the close button underneath the ribbon:

# The Trust Center

The terms computer security, identity theft, and privacy are being used more and more all the time. There are a few bad apples out there that like to create viruses and spyware for the purpose of disrupting day-to-day business. The Microsoft Windows family of operating systems, as well as a number of third-party developers, work hard every day to keep your private and sensitive data safe. So to does the Office 2010 suite.

In this lesson we will explore some of the measures taken by Access 2010 to keep your computer and yourself from being a victim of an attack or being disrupted while you work.

Warnings You May See when Opening a Database

In opening a database from a non secure location, we would encounter a warning stating that Access has prevented a file from being opened because of the security settings that have been enabled on your computer:

Security Alert Due to your security settings, certain content in the database has been disabled Enable Content... Trust Center...

You might also run into other warnings that state Access cannot perform a certain action because a non-standard operation was encountered or some part of the database file seems to be missing. It is possible that the following warning might appear not because a problem was detected, but because a certain section of the database might not be fully constructed:

	The expression On Mouse Move you entered as the event property setting produced the followin error: The expression you entered has a function name that Microsoft Office Access can't find.	
Ŷ	* The expression may not result in the name of a macro, the name of a user-defined function, or [Event Procedure].	
	* There may have been an error evaluating the function, event, or macro.	

These warnings are designed to protect you, not scare you. Should you encounter messages like the ones above, think why it may have occurred. If you received the file from someone else, tell them you have encountered a problem before opening the file. If you are unsure about the file, contact your organization's IT department for help; they may be able to diagnose your problem and provide a solution. It may even be that your security settings are a bit too high for this application (which is not always a bad thing). We will discuss what to do in situations like this in this lesson.

#### **Enabling Content**

If you are sure the file you are opening is safe, or you trust the person it came from, simply click the **ENABLE CONTENT** button in the bar that appears under the ribbon:

Security Alert Due to your security settings, certain content in the database has been disabled Enable Content... Trust Center...

Sec	urity Alerts		
File Path: C:'	ess2007f Exercise File	es\Section 1\Office (	Online Lesson 1.2 Template.acc
Access has dis	abled potentially harmful	content in this data	abase.
If you trust the click Enable thi		ase and would like to	enable it for this session only,
Content can	n <b>ot be verified.</b> on s content disabled (recor		ature. The origin of this
pen the Trust (	Center		OK Cance

Doing so will show the Trust In Office dialogue box:

In the picture above, Access gave you a warning because it could not identify who made the file. This does not necessarily mean that it came from an untrustworthy source; perhaps whoever made the file did not bother to apply a digital signature (described in the next section) or security certificate. If you are sure the content is safe, simply click the Enable this content radio button and then click OK. The file will then open normally.



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#### **About Digital Signatures**

Digital signatures serve the same purpose as a written signature or an embossed certificate: they identify who someone or what something is, and no two individual signatures are exactly the same. The same is true with digital signatures. Though the topic of signature application is a bit beyond the scope of this manual, the concept is fairly simple.

If you are part of a corporate network that sends sensitive trade secrets via electronic means, you can apply digital signatures to the files that are created. If you use Access 2010 to organize supplier information, you can safely send information to another individual in your organization. Their computer will hold what is called a digital certificate which is designed to 'decode' your signature. If your signature decodes properly, no problem – the other user will then make use of the supplier information. However if your signature does not decode properly, the other user can choose to block content from you (or perhaps someone masquerading as you!).

You can view and modify different aspects of Access' security via the Microsoft Office Access Trust Centre (described later in this lesson).

#### About Trusted Locations

Imagine you are an employee of a large company and you send and receive files every day. Access has been warning you that some files may contain a possible security threat because the sender could not be verified. However, you know the sender and know that they can be trusted. Therefore, instead of being warned every time you try to open a file from them (which can quickly become annoying), you can tell Access that files from a certain location can always be trusted.

Trusted locations can include any location on your computer including shared folders, any other computer on your network, a server on your network, or some external data source across town or across the world!

#### Opening The Trust Center

All of the security features we have mentioned thus far are accessible through the Trust Centre. Let's quickly explore the different sections and options available in each. To open the Trust Centre.

#### <u>To access trust centre settings</u> MOUSE

- 1. ClickFILE Tab (Backstage) Access **OPTIONS** (located above the Exit button):
- 2. Down the left-hand side of the Access options window is the link to **TRUST CENTRE**. Click the link, and then click the **TRUST CENTRE SETTINGS** button:
- 3. The Trust Centre window will then appear, giving you different categories of settings:

Trust Center			?
Trusted Publishers	Trusted Publishers		
Trusted Locations	Issued To 👻	Issued By	Expiration Date
Trusted Documents	VSO-SOFTWARE	VeriSign Class 3 Code Signing 2004 CA	24/05/2009
Add-ins	ESET, spol. s r.o.	VeriSign Class 3 Code Signing 2004 CA	09/06/2010
ActiveX Settings			
Macro Settings			
DEP Settings			
Message Bar			
Privacy Options			
		View	Remove
			K Cancel

#### **Trusted Publishers**

This pane will show you the security certificates of different individuals or organizations you trust.

### **Trusted Locations**

This pane allows you to add, edit, or modify different locations that contain content you can trust.

Trust Center			? 💌
Trusted Publishers	Trusted Locations		
Trusted Locations	Warning: All these locations are treated a		ı change or add a
Trusted Documents	location, make sure that the new location		
Add-ins	Path User Locations	Description	Date Modified 🕆
ActiveX Settings	E:\Documents\ C:\ Files\Office 2010\Office14\ACCWIZ\	Access default location: Wizard Databa	19/04/2010 22:34
Macro Settings			
DEP Settings	Policy Locations		
Message Bar			
Privacy Options			
	Path: E:\Documents\ Description:		
	Date Modified: 19/04/2010 22:34 Sub Folders: Allowed		
	Allow Trusted Locations on my netwo Disable all Trusted Locations		Modify
			OK Cancel

#### **Trusted Documents**

This allows you to clear trusted documents, or modify settingsto trust or distrust certain documents.

Trust Center	
Trusted Publishers	Trusted Documents
Trusted Locations	Warning: Trusted Documents open without any security prompts for macros, ActiveX controls and other
Trusted Documents	types of active content in the document. For a Trusted Document, you will not be prompted the next time you open the document, even if new active content was added to the document or changes were made to
Add-ins	existing active content. Therefore, you should only trust documents if you trust the source.
ActiveX Settings	Disable Trusted Documents
Macro Settings	Clear all Trusted Documents so that they are no longer trusted
DEP Settings	Clear all Husted Documents so that they are no longer trusted
Message Bar	
Privacy Options	
	OK Cancel

#### Add-ins

Add-ins are third party programs or code that are designed to perform a specific task to your database. Add-ins have the potential to cause a lot of trouble and ruin the functionality of a database (such as deleting all of the data) if they contain malicious code. This pane allows you to modify how Access will use any add-ins.

Add-i	ne
Auu-i	115
	Require Application Add-ins to be signed by Trusted Publisher
[	Disable notification for unsigned add-ins (code will remain disabled)
	Disable all Application Add-ins (may impair functionality)

(If you are familiar with a third party plug-in for a web browsing program, such as Adobe Acrobat Reader, the principle is essentially the same.)

#### **ActiveX Settings**

Allows you to set the default response in handling files with activeX content (activeX content may contain harmful scripts)

$\bigcirc$	Disable all controls without notification
0	Prompt me before enabling Unsafe for Initialization (UFI) controls with additional <u>r</u> estrictions and Safe for Initialization (SFI) controls with minimal restrictions
$\bigcirc$	Prompt me before enabling all controls with minimal restrictions
0	Enable all controls without restrictions and without prompting (not recommended; potentially dangerous controls can run)

#### Macro settings

Macros are a group of commands that can be executed all at once in order to perform some action on your database. But because macros can be constructed with special database code, they too can cause undesirable effects if they are from a bad source. Use this option to modify macro security settings.

#### Macro Settings

- Disable all macros without notification
- Disable all macros with notification
- Disable all macros except digitally signed macros
- Enable all macros (not recommended; potentially dangerous code can run)



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#### **Dep Settings**



Turn on or off Data Execution Protection which protects your computer from harmful scripts that may run

#### Message Bar

The Message Bar is set by default to prompt you before opening potentially unsafe content. You can turn the Message Bar on or off using this pane.

Messag	e Bar Settings for all Office Applications
Showi	ing the Message Bar
۲	Show the Message Bar in all applications when active content, such as ActiveX controls and macros, has been blocked
0	<u>N</u> ever show information about blocked content

#### **Privacy Options**

Access (and other programs in the Office suite) can automatically download new content for you, show featured links on Office Online, and provides background access to help diagnose and fix problems. If you would prefer to not see this content, you can modify settings in this pane to disable the content.

You also have the ability to translate certain files based on the languages installed with your operating system, and retrieve reference and research material on the Internet via the Privacy Options pane.

Privacy Options
<ul> <li>Connect to Office.com for updated content when I'm connected to the Internet. (i)</li> <li>Download a file periodically that helps determine system problems (i)</li> <li>Sign up for the Customer Experience Improvement Program (i)</li> <li>Automatically detect installed Office applications to improve Office.com search results. (i)</li> <li>Check Microsoft Office documents that are from or link to suspicious Web sites</li> </ul>
Allow the <u>Research task pane to check for and install new services</u> <u>Read our privacy statement</u>

#### Assigning A Password To Your Database

If you would rather not bother with more advanced security features but still want to have some protection, you can assign a password to encrypt the database. To set a password, a file must first be opened for exclusive use.

# <u>To set a Password</u>

#### MOUSE

- 1. Close any open databases
- 2. ClickFILE Tab (Backstage)OPEN:



- 3. Browse to the database file you wish to open
- 4. Click the small pull-down arrow attached to the **OPEN** button and click **OPEN EXCLUSIVE**:
- 5. Then, open the database file you wish to protect.
- 6. Click FILE Tab (Backstage) INFO:
- 7. Click ENCRYPT WITH PASSWORD in the main section of the Window:



8. When the **SET DATABASE PASSWORD** dialogue box appears, type the password you want to use in the **PASSWORD** field, then type it again in the **VERIFY** field:

Set Database Pas	sword	<b>?</b> X
Password:		
***		
Verify:		
****		

- 9. Once a password is committed to a database file, you must enter the password before Access will open it:
- 10. Should you need to remove the password, FILE Tab (Backstage) INFOsection again and click REMOVE DATABASE PASSWORD AND ENCRYPTION:

Password Required	? 🛛
Enter database password:	
****	
ОК	Cancel

11. Then, enter the password a final time to confirm the removal of the password.

#### First Steps

Making a database might seem like a pretty big job, but taking the time to design one properly will save a lot of time down the road. You are exposed to databases everyday use them all the time probably without knowing it. In fact, you are likely in several, yourself!

The easiest method of identifying yourself in day to day life is a simple handshake and saying "Hello, my name is..." But you can't really shake hands with a computer. Using your name, even your full name, isn't a very good option either because there may be hundreds of people out there with exactly the same name as you. Therefore, you must be assigned some unique identifier, the most recognizable being your Social Security Number (SSN) or Social Insurance Number (SIN). No one else in the country has the same SSN as you.

This practice holds true for databases, too. Earlier in this manual you may recall seeing the term 'primary key'. Every row in a table should have at least one field that is unique from every other record. That field is usually a number, and the unique field is referred to as the primary key. It is not imperative to have a primary key, but it makes the design of the database much easier and eliminates the possibility of duplicate data (which does nothing but confuse the issue!) It also allows a database program to (in most cases) search faster and more efficiently. Therefore, it is good practice to have a primary key for every table you make.

Let's quickly review what we know about databases: they are made up of tables, and in each table are several records (or rows) of data. Every record is made up of one or more fields, and every record in a table is different from every other record because of the unique primary key. Knowing this, and with the knowledge of the commands we learned so far, we are ready to start making databases!

For the remainder of this manual, let's pretend that you are Bugs Rabbit, CEO of an upstart animation company, Warner Cousins. You want to use Access 2010 to monitor the expenses made by you and your employees.

#### Planning A Database

Before you start using Access to create a database, take the time to answer a few questions:

- Why do you need a database? You want to keep track of the expenses made by you and your employees.
- Who will be using the database? Any employee of Warner Cousins will have access to this database.
- What kind of data would be extracted from the database? Total expenses of the company, total expenses by each employee, expenses by each category.

Once you have answered these questions, it is time to decide how to design the tables for your database. What fields of data do you need? What data types will the fields need to be? What tables would be important? Which fields will go in which table, and do the placements make sense?

# Brain power

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Next comes the planning of relationships between the data. A big list of numbers doesn't mean much by itself, but when constructed based on other data, it becomes meaningful. And finally, make sure that you talk to everyone who will be using the database will be able to get the data they need. Let's examine some of the details.

You will obviously need an expense table that contains at least the following: who made the purchase, what did they purchase, how much was it, and when did they purchase it?

The payroll department already has a listing of the people who work for you:

- SIN (or company ID #)
- Name
- Address
- Phone Number
- Company Position

The database now should have two tables: an expenses table and an employee table. Now, there needs to be some sort of link between the two tables. You could use the name of each person, but that may become confusing, especially if your company grows into the hundreds. There is another option, however. You can use the SIN (or company ID) of each employee to tie their purchase to their personal information.

In database design, your most powerful tool is not the computer, but rather a piece of paper and a pencil (and a big eraser). Not only can you easily change the information you might need, but you can also visualize the information.

Consider the following diagram, based on the paragraph above:

Expenses			Employees				1	
Employee ID	Date	Expense Type	Amount	Employee ID	Name	Address	Phone	Title
2	5/7/2006	Erasers	10	1	Bugs Rabbit	44 Carrot Dr	555-1212	CEO
2	5/25/2006	Lunch	50	2	Elmer Funn	123 Wabbit Way	555-9876	VP.
1	6/1/2006	Flight	600					

It might not look like much, but we have a database. It contains fields, records, a primary key for each record in each table, and a relationship between the data. We can see that employee 2 has made two purchases, and employee 1 only one. This might seem silly for an example of this size; why not just say Elmer Funn instead of an employee ID? As mentioned above, this becomes impractical if your organization grows. Imagine that your company has grown to employ thousands of people with hundreds of expenses a day – that becomes a pile of data in a big hurry! You might employ three or four Elmer Funns by now, so using a unique number to identify each employee becomes much more practical.

#### **Basic Terminology**

Let's take a look at the terminology used in database-speak, starting with the basics. Consider the following diagram:

Datab	ase		
Table1			
Record	field	field	field
Record	field	field	field
Record	field	field	field
Record	field	field	field
Record	field	field	field
Table2			
Record	field	field	

# Let's Look At Each Piece Of The Database.

#### Field

A field is the smallest piece of a database; that is, one specific piece of information like a number, a word, a date, a picture, or a reference for some other piece of data. Each column you see in the diagram would all be the same data type; that is, one column of data would all be numbers.

#### Record

A record is a collection of one or more fields together in a row. (In a real database, you would not count the word 'Record' as depicted in the diagram – this is just to help visualize the concept.)

#### Table

A table is comprised of one or more records. Each table also has a unique name.

#### Database

A database is comprised of one or more tables. Each database is also given a unique name.

#### Form

A form is a tool that is used to easily and accurately enter data into a table. A form presents one record of a database at a time to a user, or allows a user to enter data into the database one record at a time.

#### Query

A query is just like a question you ask the database. There are two types of queries: select and action. A select query will extract and display data based on criteria you provide. An action query will find all data relevant to your query and perform some sort of operation on it. A query can be performed on one or more tables in a database.

#### Report

A report presents the data found by a query. A report can be formatted to show summaries, calculations, charts, and more based on the data returned by a query. Access takes the report one step further by letting you organize and format a report into a sleek, professional document suitable for printing, exporting, or e-mailing.

This might seem like a lot to remember, but don't worry – this terminology will be used heavily throughout this manual and soon it will be second nature!

#### What Is A Primary Key?

A *Primary key* consists of one or more fields that uniquely identify each record in a table. An ID number of code often serves as the *Primary key* because this type of value is always different for each record. Access's



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Primary keys are especially flexible, because you can specify any field, not just the first field in the table. 'ACCESS' automatically creates an index for a table's primary key. A *Primary key* is similar to a dbase unique index except that 'ACCESS' automatically keeps the index on the *Primary key* current and uses it to search and sort records. You can also create indexes for other fields you search or sort on often.

#### What Is Unique Index?

For example, suppose you had the personnel records for a large company stored on a database. There are over 50,000 employees within the company and it is necessary for you to find different employees record so that they can be updated. If the records were not indexed, every time you try to find the employee record for 'Mr Smith' you will need to read from the beginning of the database until you find 'Mr Smith'. This operation could take hours to complete.

However, if the records were stored or indexed in alphabetical order then finding the record for 'Mr. Smith' would be a great deal easier. What if they are 3 'Mr. Smith'? Which record would be the correct one? This highlights the reason why you should try and make your index (primary key) unique, so that every record is different and can be found easily. Staff numbers would be the ideal field to create as an index, because it is unique, no two employees' numbers are ever the same.

Therefore, if you need to find 'Mr. Smith's record and you know his staff number them the record could be located in a matter of seconds rather than hours.

#### **Field Properties & Validation**

'ACCESS' automatically validates values based on a field data type; for example 'ACCEESS' will not allow text in a numeric field. You can set more specific rules for data validation rules.

#### When Should You Validate Data?

Data should be validated:

- When you want to cut down the amount of errors that can occur in data entry
- When you want data to be entered in a specific format only
- With fixed length (only xxx amount of characters can be entered)

For example if you were asking someone a question about their date of birth, you could set up a validation rule that only allowed them to enter their data in a specific format i.e. Day/Month/Year, and only allowed them to enter a date which makes them over the age of 18. This will ensure validity of data and cut down the number of errors made.

#### Setting Field Properties

In the lower portion of the table window, you can set properties for the current field. For example, you can set the size of text or numeric fields. This is also where you define validation rules and default values to assist in the data entry and prevent mistakes in your data.

#### The Concept Of Normalisation

Data values should not be stored twice. If they are, it is a waste of space and more importantly, leads to updates only being applied to some of the copies of the value.

Each record is a collection of data items, which have some unique key. In any one record, the data items can only have one value for each key.

If a formal system has a set of repeating entries on one form, then each repeating entry becomes a record in a table.

Some business applications can be implemented using only one table, for example a stock file of a mailing database.

Many other applications use several tables; stock monitoring with records of purchase orders being delivered and despatches being sent out.

The correct system for an internal telephone directory giving departments, employees, rooms and extension numbers needs six tables to cope with such concepts as one room having more than one telephone extensions or two employees sharing the same extension.

End-users require an understanding of these concepts before they can design systems, which are capable of solving a problem. The target of the developer should be that, other people could use system without hours of explanation, or volumes of documentation

THIS IS SELDOM ACHIEVED - usually due to lack of system design.

The data that is to be stored in tables need to be thought about. One factor that needs to be taken into consideration when deciding what tables will be needed is the reality of the system. How many repeating lines mean a new table is needed?

A simple example of this is a list of companies and their telephone numbers. There could be a field for the switch board number, a fax number and an emergency number. This means that we can use one record per company, with three telephone number fields. If one company has fifty external telephone lines then we should NOT allocate fifty field for the numbers in one record; we should start a new table with one field for each telephone number, and another filed to link the telephone number table to the company table. WE do not normally want to repeat the company name in the company name in the telephone number table, as this would be a repetition. If each company has a unique identifier, then this can be stored in the telephone number table.

We have already mentioned that each table normally has a unique key 'ACCESS' allows the key to be constructed from two fields such that the combination of values from the two fields is unique. It is NOT compulsory to have a key for a title; the existence of a key serves more that one purpose though.

#### Normalisation Techniques

- The steps in Normalising data are:
- Convert the source data into a list of attributes;
- Put repeating groups of data into separate structures;
- Put data that is only dependent on part of the key into separate structures;
- Put data that is dependent on other non-key data into separate structures;
- Combine structures with identical keys.

#### The following source document will be used to illustrate the effect of each step.

SALES ORDER RECORD							
Order No.	Order Date:		Order Value	Priority	Sales Person		
Customer No. Customer Name:							
Invoice Address:		Consignee Address:					
Order Details							
Product Code Description		QTY	Price	Delivery Data			
Delivery Instruction:		Special Instruction	:				

Convert the source data into a list of attributes

#### (UN-NORMALISED FORM (UNF))

UNF

#### Order No.

Order Date Order Value Priority Sales Person Customer No. Customer Name Customer Address Consignee Address Invoice Address Product Code Description Quantity Price Delivery Date Delivery Instruction Special Instruction

Put repeating groups data into specific structure

#### (First Normal Form (FNF))

Order No. Order No. Product Code Order Value Order Value Description Priority Quantity Sales Person Price Customer No. Delivery Data Customer Name Invoice Address **Consignee** Address Delivery Address Delivery Date **Delivery** Instruction Special Instruction

#### THIS IS CALLED THE FIRST NORMAL FORM (FNF)

Put fields which are only dependent on part of the key into separate structures (Second Normal Form)

#### This step is also called 'removing partial dependencies'.

The description attributes in the extracted group is only dependent on the product code part of the key, not the order No. So that is extracted to a new group. Its primary key is product code. In simple terms this is saying that the description of a product will always be the same, so why not hold it once under the product code, rather that repeat it every time it is ordered.

#### There are now three groups of data:

<u>Order No.</u>	<u>Order No.</u>	Product Code					
	Product Code						
Order Date		Description					
Order Value	Quantity	Price					
Priority							
Sales Person							
Customer No.							
Customer Name							
Invoice Address							
Consignee Addres	is						
Delivery Address							

#### Special Instruction

Please click the advert

The above example assumes that the price is per unit. The analyst would have to check that, this was the correct meaning and not, say price per unit x quantity ordered.

Put fields that are dependent on other non-key fields into separate structures.



#### (THIRD NORMAL FORM (TNF)).

This step is known as 'removing mutual dependencies'.

The fields 'Customer Address', and 'Invoice Address' are only dependent on the customer number.

They are extracted to a separate group with Customer Number as the primary key.

Customer Number needs to remain in the original data group as a foreign key to provide a link to the extracted data. Again, in simple terms, the reasoning is that if the 'Customer Address' and 'Invoice Address' will always be the same, hold them only once with the master details of the customer. The foreign key is marked with an '\*'.

Order No.	Order No.	Product Code	Customer No.
	Product Code		
Order Date		Description	Customer Name
Sales Person	Quantity Price	Invoice Address	
*Customer No.	Delivery Date		
Consignee Addres	55		
Delivery Instructi	on		
Special Instruction	n		
Priority			

#### **Key Values**

'ACCESS' ensures that no two records in the same table can have the same key. If we use a 'part number' to identify a line of stock, then this must be kept unique. If two different lines of stock had the same key, then chaos could be caused.

The key also creates a sequence for the records. However, the user should not try to use values for a key to sequence a report. The data can be presented in different sequence in different printouts without using any keys.

The key also provides quick access to a record, which is important if there are hundreds of records in a file. This feature is used frequently by 'ACCESS' when the user is interacting with more than one table at once, via a form, a report or a key.

#### Choosing A Key

Sometimes the choice of a field for a key is self-evident, as with example such as Employee Details (Payroll number) or stock file (Part Number). If the table is a list of companies, then the choice is not so obvious. If the companies were customers, then a Sales Ledger system would specify an account number for each. If they are a mix of useful contacts such as Bank, Inland Revenue, Software support, Consultant and so on, then there is no obvious key.

In this situation, an artificial key needs to be created. The old fashioned way to do this was to sue some letters of the company name, a letter to give their relationship to our organisation to our organisation and some geographical reference. This style of solution is now largely discredited, and it is more common to use an artificial numbering system such as A001, A002 and so on. The length of the code should be as short as possible, but providing enough possible values to cope with any predictable number of records.

An alphabetical key provide many more possible values than numeric, but care should be taken to avoid problems such as A 1 not being the same as A1 or A 1.

Sometimes it is desirable to use two fields for a key. If we wish to keep records of daily usage of pool cars, then we could use the combination of the car registration numbers and the date. This would not permit the storage of two records for the same car for the same day though. A system to record quality wines in stock will need to have a list of the wines, and then a second table indicating the number of wines in stock for each year. In this case, the key to the wine table could be vineyard number, and the key to the second table would be the combination of the vineyard number and the year.

It is always possible to create a new field to act a key in one table, and store the other fields as non-key data items.



Please click the advert

# Section 3 Saving in Access

#### BY THE END OF THIS SECTION YOU WILL BE ABLE TO

- Save your objects
- Save objects as different object types
- Save your database as earlier versions
- Set file and object properties

#### Saving in Access

Much of the file management functionality of Access takes place in the background and automatically saves most changes you make to a database. When Access does not save something for you automatically, you will be prompted asking if you want to save the changes to a particular object.

However, Access does give you a bit of flexibility when it comes to saving different objects. We will explore this saving functionality in this lesson.

#### Using The Save As Options

Access gives you two commands to choose from: Save Object as and Save database as (to save database in another format.)

Let's look at each of the options.

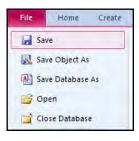
#### Save Object As

Most things in Access are saved automatically, but you can perform a manual save of a particular database object. For example, consider the Employees table of the Northwind sample database:

		ID -	Company -	First Name +	Last Name +
	+	1	Northwind Traders	Nancy	Freehafer
	Ŧ		Northwind Traders	Andrew	Cencini
	+	3	Northwind Traders	Jan	Kotas
	+	4	Northwind Traders	Mariya	Sergienko
	ŧ	5	Northwind Traders	Steven	Thorpe
	Ŧ	6	Northwind Traders	Michael	Neipper
	+	7	Northwind Traders	Robert	Zare
	+	8	Northwind Traders	Laura	Giussani
	Ŧ	9	Northwind Traders	Anne	Hellung-Larse
*		+#####			

# To save an object

# MOUSE



#### 1. Click FILE Tab (Backstage) - SAVE OBJECT AS:

Save As	? 🔀
Save 'Employees' to:	
Copy of Employees	
As	
Table	
	OK Cancel

2. The following **SAVE AS** dialogue box will appear:

In this example, you have the ability to save the Employees table as another table (which will make a copy), query, form, or report. Give the new object a name and then click the pull-down arrow beside the **AS** combo box to see the choices. Remember, you can always save a copy of the object as the same type of object (table as table, form as form, etc.).

Object	What Objects you can Save As
Tables	Table, Query, Form, Report
Queries	Query, Form, Report
Forms	Form, Report
Reports	Report only

3. Once you have saved the new object you can access it in the NAVIGATION PANE: (Seefollowing picture)

All A	ccess Objects 🛛 👻 «	E		Home	Copy of Employees	Customers E
Tabl	es 🎄	-	-	ID -	Company -	First Name -
11	Copy of Employees		Ŧ	1	Northwind Traders	Nancy
	Customers		Ŧ	2	Northwind Traders	Andrew
-			+	3	Northwind Traders	Jan
111	Employee Privileges		Ŧ	4	Northwind Traders	Mariya
	Employees		ŧ	5	Northwind Traders	Steven
121	Inventory Restocking		Ŧ	6	Northwind Traders	Michael
			Ŧ	7	Northwind Traders	Robert
12.0	Inventory Restocking Deta		+	8	Northwind Traders	Laura
	Inventory Transactions		÷	9	Northwind Traders	Anne
	Invoices	*		+++++++		

#### Save Database As

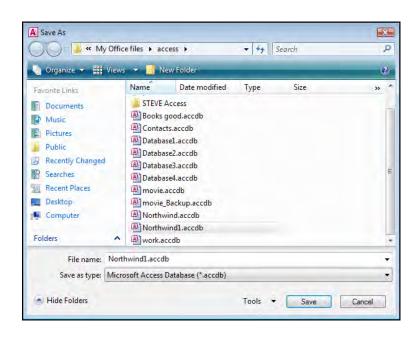
This allows the saving of the database As a copy

# ➤ To save a copy

#### **MOUSE**

File	Home	Create
	Save	
8	Save Object A	s
•	Save Database	e As
6	Open	
1	Close Databas	ie

- 1. Click FILE Tab (Backstage) SAVE DATABSE AS:
- 2. Access will close all currently open database objects and then open the SAVE AS dialogue box.



- 3. Choose a save location and new file name.
- 4. Click SAVE.



#### Saving In A Different Format

You may wish to save your database as an earlier format to allow users from earlier versions of access to utilise it. This could prove difficult as many new features within your database are not compatible with earlier versions.

Save	File Types	Save Database As
Save Object As     Save Database As	Save Database As	Database File Types
💕 Open	Save Object As	Access Database (*.accdb)     Default database format.     Save a copy that will be compatible with     Access 2002-2003.
Close Database	Publish	Access 2000 Database (*.mdb)     Save a copy that will be compatible with     Access 2000.     Access 2000.     template (ACCDT).
Northwind.accdb	Publish to Access Services	Advanced
Contacts.accdb	Package and Distribute	Package and Sign     Package the database and apply a digital     signature.     Signature.
Info	Package Solution	Back Up Database         Image: SharePoint           Back up important databases regularly to prevent data loss.         Share the database by saving it to a document management server.
Recent		
Print		Save As
Save & Publish		

# > <u>To save as an earlier version</u> <u>MOUSE</u>

- 1. Click the FILE tab and SAVE & PUBLISH
- 2. From the main window make a selection of which format of database you wish to save it as:

#### Access 2002-2003 File Format

#### Access 2000 Database

Access 2010 uses a new file structure to save files. The 2010 file format is not directly backwards compatible with previous versions of Access. However, it can be made to save files in any other version of Access if necessary.

- 3. Click the **SAVE AS** button to open the **SAVE AS** dialogue
- 4. Enter a file name and browse to a location
- 5. Click SAVE

#### **Using File Properties**

You can view and edit the properties of a file at any time by using the FILE Tab (Backstage).

> To access and set Database Properties



- 1. Open a database file
- 2. ClickFILE Tab INFO-
- 3. Click the **VIEW AND EDIT DATABASE PROPERTIES.** Link on the right of the main window
- 4. From the dialogue that appears Click the **SUMMARY** tab to show the current database properties:
- 5. Click in any of the fields and enter the information.
- 6. Click **OK** when you have edited or entered the properties you wish.

Books good.ac	cdb P	roperties			? 💌	
General Sum	mary	Statistics	Contents	Custom		
Title:	Librar	y Database				
Subject:						
Author:	John Thomas					
Manager:						
Company:	State	Library Cor	mplex			
Category:	Inven	itory				
Keywords:						
Comments:						
Hyperlink base:						
Template:						
				ОК	Cancel	

#### **Using Object Properties**

Each object that you create within your database has its own properties you may wish to enter or edit

# > To set a database objects properties

#### **MOUSE**

	-	A 14.						Table	0015
File	Home	Create	Exte	ernal Da	ta	Database Tools	Add-Ins	Fields	Table
Here		47	37	37	X	5			
Table Properties	Before Change	Before Delete	After Insert	After Update	After Delete	Named Macro *	Relationships	_	t
Properties	Before	Events	Af	ter Even	ts	Named Macros	Relati	onships	

- 1. Select and open an object in the Navigation pane
- 2. Click the TABLE TOOLS, TABLEContextual tab. (Table object open)

Enter Table Properties	? 💌
Order By Filter By Orientation Read Only When Disconnected	Left-to-Right  Yes
	OK Cancel

- 3. Click the TABLE PROPERTIES button in the PROPERTIES group
- 4. Enter or edit any properties you wish to set

<u>OR</u>

Customers Properties	x
General	
Customers	
Type: Table	_
Description:	
Created: 24/05/2005 08:56:40	-
Modified: 24/01/2008 10:52:44	
Owner: Admin	-
Attributes: Hidden	
OK Cancel Apply	

- 1. Right click a Table in the NAVIGATION Pane
- 2. Choose TABLE PROPERTIES
- 3. In the dialogue that appears, Enter a description of the object.

#### 4. Click **OK** to close

#### <u>OR</u>



- 1. Open a table (any object) in design view.
- 2. On the Contextual design ribbon in the show hide group
- 3. Click on the property sheet button to see the property sheet for the open object on the right hand side
- 4. Set or edit any of the options you wish to.

Property Sheet		×
Selection type: Table Prope	rties	
General		
Subdatasheet Expanded	No	-
Subdatasheet Height	0 cm	
Orientation	Left-to-Right	
Description		
Default View	Datasheet	
Validation Rule		
Validation Text		
Filter		
Order By	Customers.State	
Subdatasheet Name	[Auto]	
Link Child Fields		
Link Master Fields		
Filter On Load	No	
Order By On Load	Yes	
Order By On	-1	

5. Click the save button on the quick access toolbar to save the property changes.

# Using AutoRecover

Access that makes a backup copy of the database you are currently working on. Access, by default, saves the current working file every ten minutes. If your computer encounters a problem and Access has to close, your database will be restored the next time it is opened.

# To see Section 4-12 download Access 2010: Part II Access 2010: Part III Access 2010: Part IV