

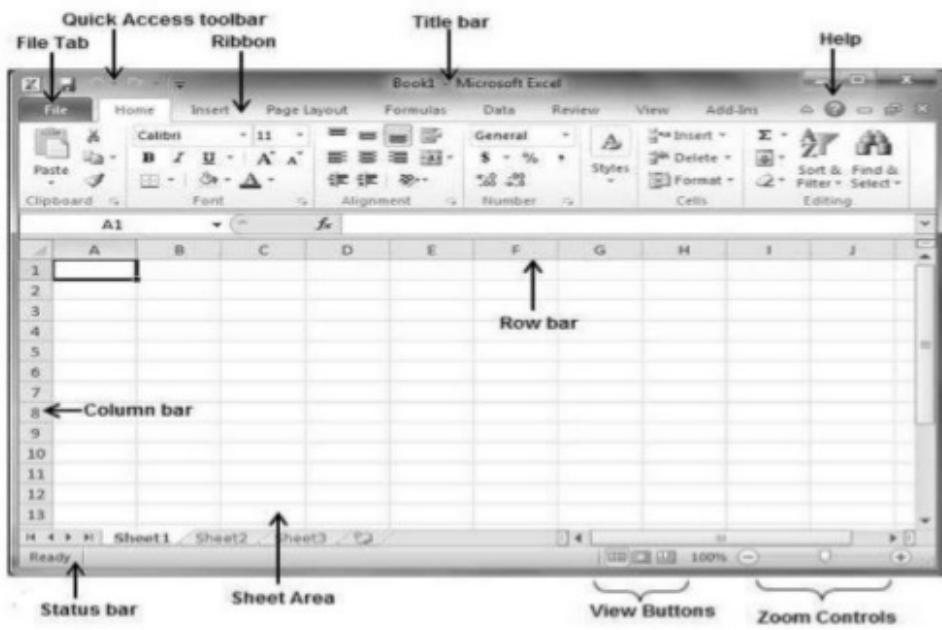
## ***INTRODUCTION TO THE WORKBOOK AND SPREADSHEET***

- A spread sheet looks a lot like a table you might see in any word processing package, but it has some very important features that most tables do not.
- The first is that it is designed to make repetitive and/or complicated calculations very easy to carry out.
- Secondly, most spreadsheet programs have advanced graphing capabilities that make producing graphs from the data on the spread sheet relatively simple.

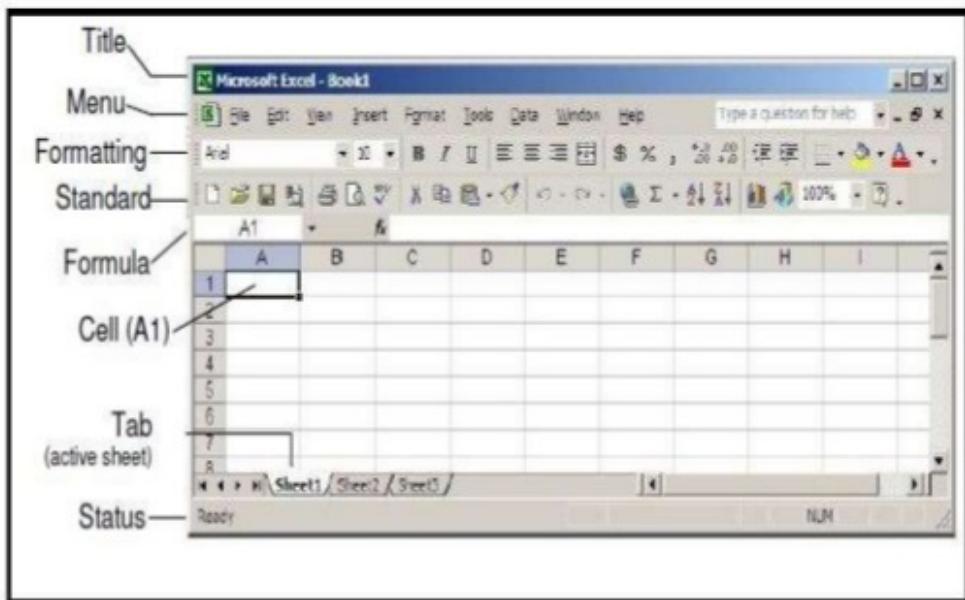
## **CONT....**

- In Excel each document is referred to as a workbook.
- Within each workbook you can have any number of spread sheets, the default is three but you can add as many sheets as you find necessary. At any given time, only one sheet is active in your work book.
- Additionally, when you print, the default for Excel is to only print the sheet that is active.

# MS-EXCEL 2010



# THE EXCEL WINDOW



# **EXCEL TOOLBARS**

Toolbar Name	Usage
Title Bar	Displays the title of the workbook you are currently in.
Menu Bar	Menus, left click menu to see choices.
Formatting Toolbar	Various formatting shortcuts.
Standard Toolbar	Standard Tools, similar to other Microsoft products, and some special tools for Excel.
Formula Bar	Two important fields, the left field shows the cell address of the cell your cursor is currently located in. The right field displays the 'actual' contents of the cell, this field is especially important when you are entering formulas.
Tab Bar	Allows you to move through sheets. Note the active sheet is always highlighted.
Status Bar	Displays a description of what Excel is doing.

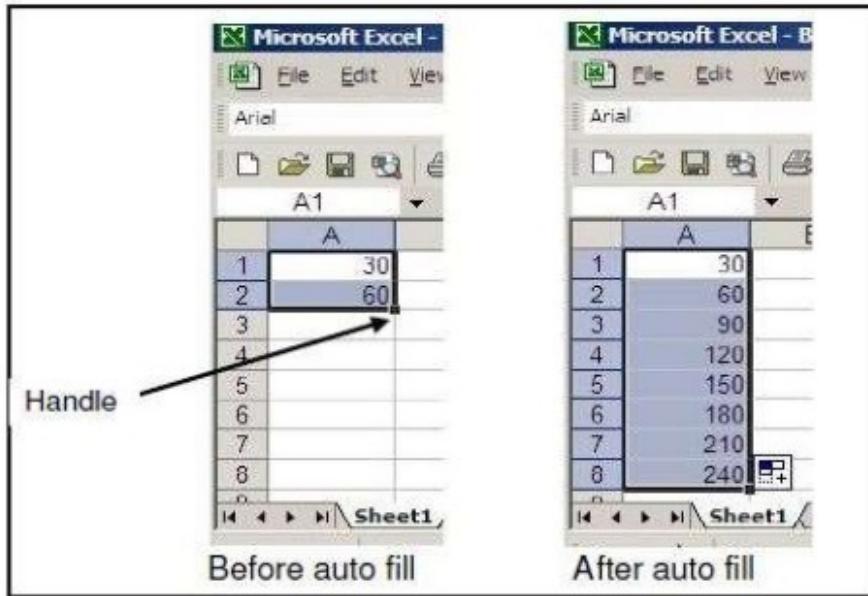
## **CELL ADDRESSING AND ENTERING DATA**

- The spread sheet itself is laid out as a table made up of columns and rows.
- Each column has a letter reference (A, B, C...) and each row has a number reference (1,2, 3...).
- Each square in the spread sheet represents the intersection of 1 row and 1 column and is referred to as a **cell**.
- **Cells are referenced according to the row and column intersection.** For example: cell A1 is the cell in column A and row 1. This unique row and column reference of a cell is referred to as its 'address'.

## EXCEL'S AUTO FILL

- To use auto fill, enter the first two numbers in the series in adjoining cells.
- Now select both cells, grab the common **handle (the little black box in the bottom right hand corner of the selected cells)** and drag down as far as needed.
- You should now have a series of numbers, following the pattern of the first two you entered.
- This trick will work for letters and formulas as well as numbers, and works for columns as well as rows.

# EXCEL'S AUTO FILL



## **ENTERING FORMULAS**

- There are two ways to enter formulas in Excel, either use one of the functions already programmed in Excel, or enter your own from scratch.
- ***Entering your own formula***
- To enter your own formula start by typing an equal sign (this tells Excel you are entering a formula) and then entering the formula using **operands and operators**.
- Standard arithmetic operators are listed in Table 1, but many others are available.
- Operands can either be numbers you enter, or can be cell references.
- To enter a cell reference into a formula either type it, or click the cell.

## **ARITHMETIC OPERATORS**

<b>Arithmetic operator</b>	<b>Meaning (example)</b>
+ (plus sign)	Addition ( $3+3$ )
- (minus sign)	Subtraction ( $3-1$ )
*(asterisk)	Multiplication ( $3*3$ )
/ (forward slash)	Division ( $3/3$ )
% (percent sign)	Percent ( $20\%$ )
^ (caret)	Exponentiation ( $3^2$ )

## **OPERATOR PRECEDENCE IN EXCEL**

Precedence	Operator	Description	
1	:	(colon) (single space) ,	Reference operators
2	-		Negation (as in -1)
3	%		Percent
4	^		Exponentiation
5	* and /		Multiplication and division
6	+ and -		Addition and subtraction
7	&		Connects two strings of text (concatenation)
8	= < > <= >= <>		Comparison

## ***USING EXCEL'S FUNCTIONS***

- The easiest way to understand the implementation of Excel functions is by following a step by step example. To access Excel's functions, click the down arrow next to the sum button.
- This gives you a popup menu showing the five most common Excel functions, and below these, a menu choice titled 'More Functions'. Note that selecting one of the five functions in the pop up menu will work differently then selecting them from the "More Functions" menu.

## EXCEL'S POP UP FUNCTION MENU

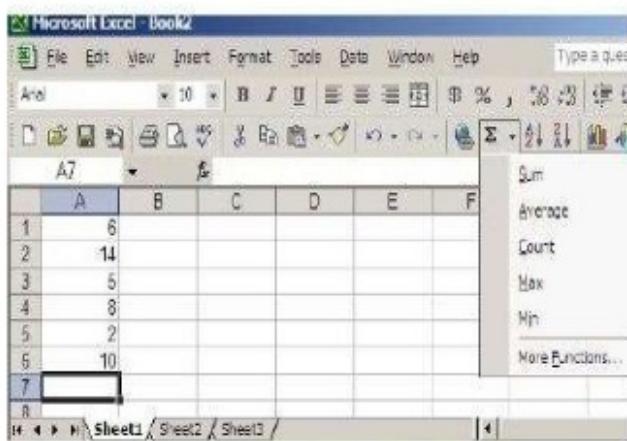


Figure 3. Excel's pop up function menu.

**Step 1.** Start by entering the series of numbers as pictured in Figure 3. Place your cursor in cell A7. Select sum from the list of functions that appears when you click the down arrow next to the sum button (or click the sum button). Excel tries to guess the cells you wish to sum up. Generally it will select all the cells containing numerical data immediately next to the cell you are inserting the function into.

# EXCEL SUM FUNCTION

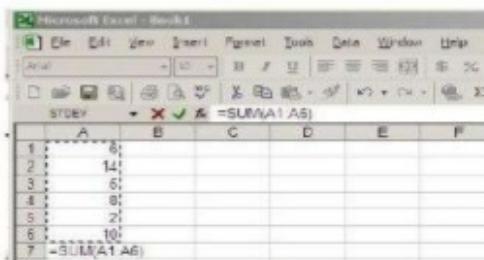


Figure 4. Excel's sum function.

**Step 2.** You can see what cells Excel has chosen in 2 ways. They will be enclosed in a marching dash box, and the range is displayed in the function window. In this case Excel has chosen the correct data. You can always override by selecting the cells yourself, or typing the correct range in the function window.

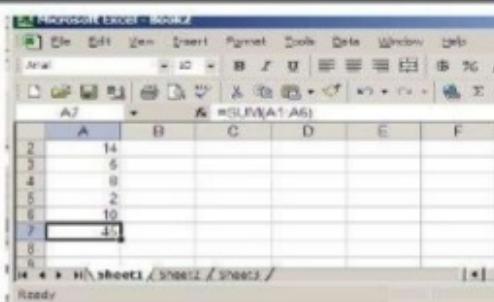


Figure 5. Result of using Excel's sum function.

**Step 3.** When the correct cells have been chosen, press enter. The sum will appear in cell A7. Note that when you select cell A7, the function appears in the function window, but the result will still appear in the cell on the spreadsheet.

## ENTERING FORMULAS

- All formulas start with an = sign.
  - Case is not important when entering the formula.
  - Cells containing non numerical entrees will be ignored in calculations.
  - Excel functions are listed in; Excel Help>Contents>Function Reference
  - The default for auto filling formulas is to use relative addressing.
-

# GRAPHING

- Excel has the capability of making many different styles of graphs. The following example will show you how to make a scatter plot, add a linear regression trend line , and how to fine tune the graphs appearance.

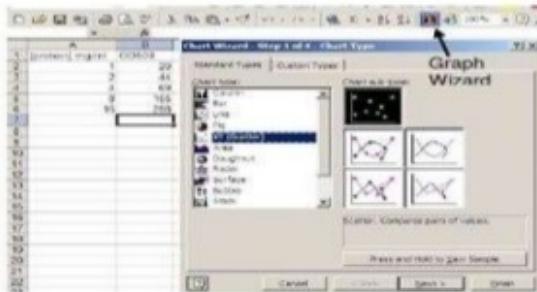


Figure 10. Excel's chart wizard, step 1, selecting the chart type.

**Step 1.** Let's start with a typical set of data for establishing a standard curve. Enter the data into Excel as picture in Figure 10. Now click the chart wizard button.

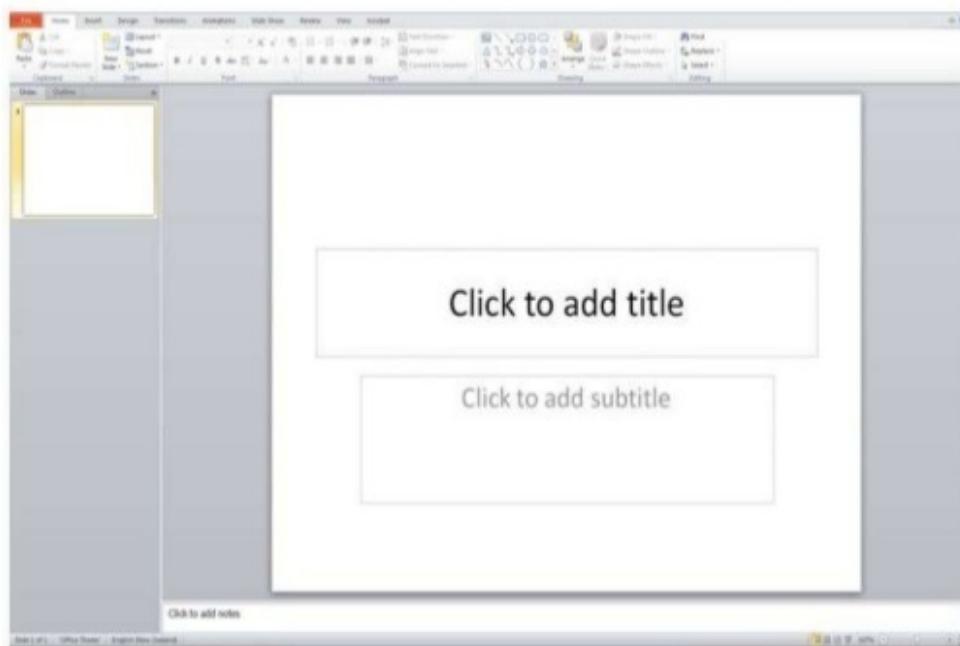
Click the XY scatter plot button. Do not use line graph, this will not give us what we want.

Select the first option for graph sub-type (the one with just dots, no line drawn), and click next.

## MS POWERPOINT

- ◉ Microsoft PowerPoint is an electronic presentation program that helps people present a speech using a collection of slides.
- ◉ A PowerPoint presentation is a collection of slides that can be used to create oral presentations.
- ◉ Inserting a New Slide
- ◉ **Home << New Slide**

# STANDARD FIRST SLIDE OF A POWERPOINT PRESENTATION



## VIEWS

- ⦿ There are four different views in PowerPoint :
- ⦿ Normal
- ⦿ Slide sorter
- ⦿ Notes page
- ⦿ Slide show
- ⦿ Each view is used for a different step in creating your PowerPoint presentation.
- ⦿ Normal View
- ⦿ **View >> Normal**
- ⦿ This view is used when creating and designing your slides.
- ⦿ Selecting a Slide
- ⦿ To select a slide, click the slide in the slides panel (a thick borderline appears around the slide).

# SLIDE SORTER VIEW

- **View >>Slide Sorter**

- This view is good to use when organizing your slides. Use when you want to delete, copy, paste or move your slides.



## SLIDE SHOW

- ⦿ View >> Slide Show
- ⦿ It shows your presentation in full screen. It can also be used to check any animations, transitions or timing at the final stage of preparation for your presentation
- ⦿ **Note:** Press ESC key to return to normal view.
- ⦿ Notes Page
- ⦿ View >> Notes Page
- ⦿ **Note:** You can add and view your notes for each slide.

# NOTES PAGE



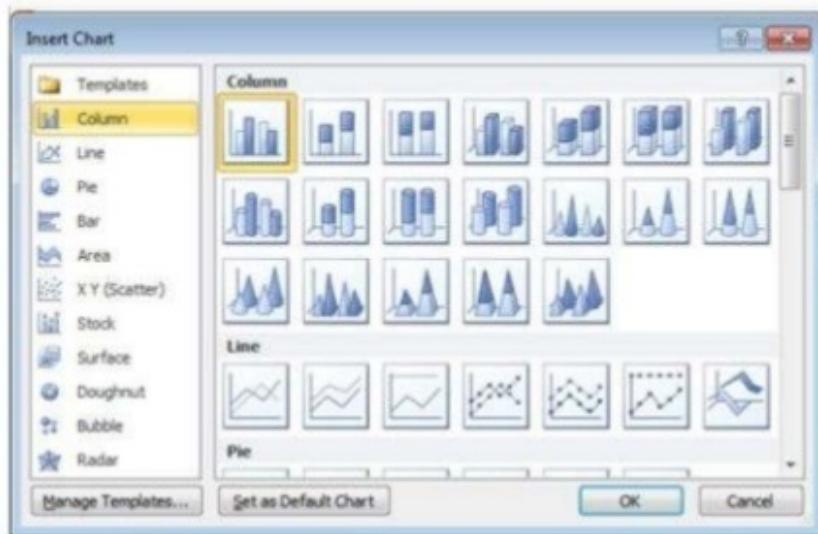
# INSERTING A GRAPH

- Select the slide you are going to put the chart on
- Insert << Chart



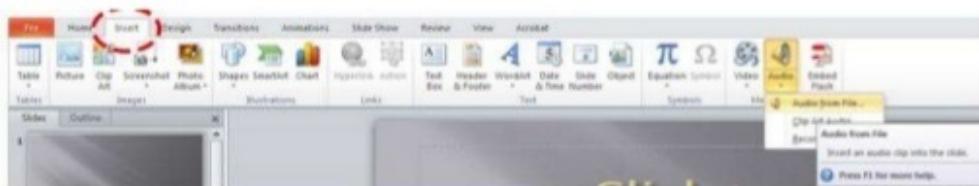
# CHART

- Choose the type of chart you want to use <<  
OK



# INSERTING A SOUND

- Select the slide you are going to put the sound on
- **Insert << Audio >> Audio from File**
- Browse for your sound file >> Insert
- When you click on the sound icon your sound will start playing automatically



## INSERTING A SOUND



## PASSWORD IN POWERPOINT

- To set a password in power point
- Go to File > Click on Info
- Click on protect presentation
- Under which there is an option, “Encrypt with Password” , click on it
- Hit “OK” once you enter the password
- Now it will again ask to Re-enter the password
- OK Exit

## RECORD A SLIDE SHOW IN POWERPOINT

- To record a slide show in power point
- Click the slide show tab, then locate the Set Up group
- Click the Record Slide Show drop down arrow. Select either “Start recording from current slide” or “ Start recording from Beginning”
- A dialog box will appear, select the desired options “Select and animation timings” and second option is “ Narration and laser pointer” and then click on “ Start Recording” option.

## **CONT...**

- ⦿ Soon you click on “Start Recording” your presentation will open on a full screen
- ⦿ Perform your slide show, when you are ready to move to the next slide, click “Next” button represented with an arrow mark on the “Recording Toolbar”

## VIDEO IN POWERPOINT

- Select the file tab
- Select Export and then click Create a Video , video export option will appear on the right
- Click the drop down arrow next to Computer and HD Displays for the size and quality of your video
- Select the option according whether you want to record narration or not
- Click Create Video and then save the video

## PLAY MUSIC FOR THE DURATION

- Download or store music to your PC hard drive and from there upload it to PowerPoint
- In the main menu on the “Insert” tab, click “Audio” and then click on “Audio on my PC”
- Locate and double click the music file
- Click on “Play in Background” under “Playback” tab

## MS ACCESS

- ◉ Microsoft Access database is a relational database management system which combines GUI (Graphical User Interface) with Microsoft Jet database engine.
- ◉ It can import and use data from Access, SQL, Oracle, etc.
- ◉ This software is used to build application software.
- ◉ Microsoft Access is just one part of Microsoft's overall data management product strategy.

## CONT...

- It stores data in its own format based on the Access Jet Database Engine.
- Like relational databases, Microsoft Access also allows you to link related information easily.
- It can also import or link directly to data stored in other applications.
- Access can work with most popular databases that support the Open Database Connectivity (ODBC) standard, including SQL Server, Oracle, and DB2.

## **CONT...**

- ⦿ Software developers can use Microsoft Access to develop application software.
- ⦿ Microsoft Access stores information which is called a database.
- ⦿ To use MS Access, you will need to follow these **four** steps:
  - 1.Database Creation** - Create your Microsoft Access database and specify what kind of data you will be storing.
  - 2.Data Input** - After your database is created, the data of every business day can be entered into the Access database.

## **CONT...**

3. **Query** - This is a fancy term to basically describe the process of retrieving information from the database.
4. **Report (optional)** - Information from the database is organized in a nice presentation that can be printed in an Access Report.

## EXTENSION FOR MS ACCESS

- Access database.accdb
- Access project.adp
- Access project.mdw
- Access blank project template.adn
- Access workgroup.mdw
- Protected access database.accde

## TABLE

- Table is an object that is used to define and store data.
- When you create a new table, Access asks you to define fields which is also known as column headings.
- Each field must have a unique name, and data type.
- Tables contain fields or columns that store different kinds of data, such as a name or an address, and records or rows that collect all the information about a particular instance of the subject, such as all the information about a customer or employee etc.

## **CONT...**

- ⦿ You can define a primary key, one or more fields that have a unique value for each record, and one or more indexes on each table to help retrieve your data more quickly.

## QUERY

- An object that provides a custom view of data from one or more tables. Queries are a way
- of searching for and compiling data from one or more tables.
- □ Running a query is like asking a detailed question of your database.
- □ When you build a query in Access, you are defining specific search conditions to
- find exactly the data you want.

## **CONT....**

- In Access, you can use the graphical query by example facility or you can write Structured Query Language (SQL) statements to create your queries.
- You can define queries to Select, Update, Insert, or Delete data.
- You can also define queries that create new tables from data in one or more existing tables.

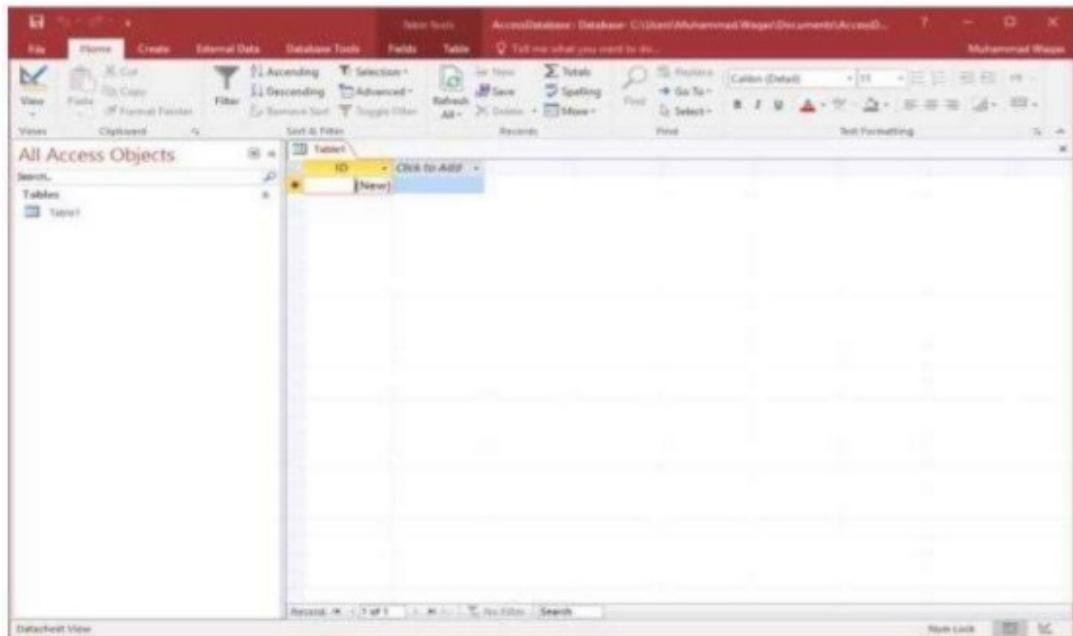
## FORM

- Form is an object in a desktop database designed primarily for data input or display or for control of application execution.
- You use forms to customize the presentation of data that your application extracts from queries or tables.
- Forms are used for entering, modifying, and viewing records.
- The reason forms are used so often is that they are an easy way to guide people toward entering data correctly.
- When you enter information into a form in Access, the data goes exactly where the database designer wants it to go in one or more related tables.

# REPORT

- Report is an object in desktop databases designed for formatting, calculating, printing, and summarizing selected data.
- You can view a report on your screen before you print it.
- If forms are for input purposes, then reports are for output.
- Anything you plan to print deserves a report, whether it is a list of names and addresses, a financial summary for a period, or a set of mailing labels.
- Reports are useful because they allow you to present components of your database in an easy-to-read format.
- You can even customize a report's appearance to make it visually appealing.
- Access offers you the ability to create a report from any table or query.

# BLANK DATABASE



## MS ACCESS – QUERY

- ⦿ A query is a request for data results, and for action on data.
- ⦿ You can use a query to answer a simple question, to perform calculations, to combine data from different tables, or even to add, change, or delete table data.
- ⦿ As tables grow in size they can have hundreds of thousands of records, which makes it impossible for the user to pick out specific records from that table.
- ⦿ With a query you can apply a filter to the table's data, so that you only get the information that you want.
- ⦿ Queries that you use to retrieve data from a table or to make calculations are called select queries.

## CONT...

- Queries that add, change, or delete data are called action queries.
- You can also use a query to supply data for a form or report.
- In a well-designed database, the data that you want to present by using a form or report is often located in several different tables.
- The tricky part of queries is that you must understand how to construct one before you can actually use them.



# **END**

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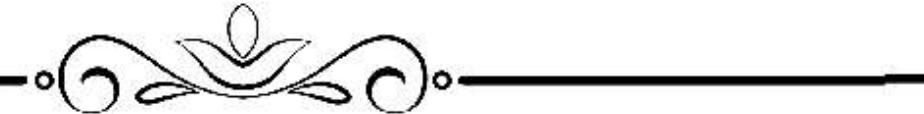
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