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Make calculations such as numeric, logical and text calculations. 2. Perform data analysis: Excel is used to convert raw data to useful information for decision makers. • Columns are represented by letters • Rows are represented by numbers • Cells are column intersections and rows = names or addresses such as A5 or A1. • Worksheet = sheet = all cells. • Sheet Tab = Works sheet name. Workbook = All sheets = files. • Sheet navigation is done using the following: 1. Ctrl + PageDown =expose the next sheet to the right. 2. Ctrl + PageUp =expose the next sheet to the left. 3. Right-click sheet navigation arrow to get a pop-up for sheet name. Keyboard shortcuts are efficient because they help you to get tasks quickly. The Ctrl keyboard is a key you hold together. 1. Ctrl + Arrow: jump to the bottom of the Current Region, which means it jumps into the last cell that has data, exactly the first empty cell. 2. Ctrl + Home = Jump to A1 cell. 3. Ctrl + Final = Go to the last used cell. 4. Ctrl + Shift + Arrow = Highlight column (Current Region). Current. Regions are defined as all data until the first empty cell. 5. SUM: Alt + = 6. Ctrl + Backspace = Jump back to Active Cells. 7. Ctrl + 1 = Cell Format dialog box, or in the chart it opens the Task Pane of Element Chart Format. 8. Ctrl + Z = Undo, Ctrl + Y = Undo, Ctrl + C = Copy, Ctrl + V = Paste, Ctrl + X = Cut. Alt keyboard is a key you press in succession: (Page Setup). Alt, P, S, P Put things (formula, text, and number) in a cell with: 1. ENTER = Put things in the cell and move the selected cell DOWN. 2. CTRL + ENTER = Place things in the cell and save the selected cell. 3. TAB = Place things in the selected cells and move the selected cells TO THE RIGHT. 4. SHIFT + ENTER = Place things in the selected cells and move the selected cells. 5. SHIFT + TAB = Place things in the cell and move the selected left cell. Data Analysis = turns raw data into useful information for decision makers. Business Intelligence = converts raw data into useful/actionable information (often in the form of dashboards) for decision-makers in business situations. Raw Data = data in its restelling form that allows excel Data Analytics features and Excel data analytics techniques to work. Correct Data Set = Correct Table Format = Field Name in the first row and Record in line. Net Raw Data = Fix raw data that cannot be used so that it can be used to perform data analytics. Example: • Remove an unwanted charter. • Add required characters. • Divide data other than the required data. • Join the data together to obtain the desired data. vi. Changing Data Sets = Fix data sets that cannot be used so that they can be used to perform data analytics. Example: ? Filter, merge, merge, increase or unselect data sets. ? Add, remove or filter columns in a data set. vii. Import Data = import data from external sources (one or multiple sources) into Excel Data Model or Power Pivot; optimally, imports will allow a refresh so that when the source data changes the report's output resulting from import action will be updated reflecting changes in the source data. viii. Data Analysis and Business Intelligence Goals: Create useful information, be updated and actionable for decision makers. 8) Correct Data Set, Data Type, Alignment and Excel Table features: Formatare Table Comparable Data Correctly synonymous. The following Excel features do not work correctly unless raw data is stored in the correct Data Set: Sorting, Filtration, Advanced Filtering, Functionality D, PivotTables, Excel Table Features, Power Query, Power Pick and Power BI Desktop. 1. Definitions of the Correct Data Set in Excel: • Field name in the first row. • Records in the next row. • Empty cells, Excel Queues, or Column Heading must be data set. • Default Data Type and Alignment in Excel 2. Default Data types and Alignment in Excel • The numbers are properly supervised • The text value is slammed left. • Boolean Value (TRUE or FALSE) is a network centre and ALL CAPS. • Error Value is the center aligned. ? Empty Cells. 3. The Default Alignment in Excel provides a visual signal of what type of data it is. If Date, Times or Numbers are slammed left and considered your formulaic text and other Excel features may not work as intended. Example: SUM function can't add Text Number columns. The reasons for that Date, Times or Numbers are slammed left and considered Text. 1. Often Date, Times or Numbers exported from a database or text file are considered text. 2. If you use Text Number Format. 3. Using an apostrophe indicator before Date or Time or Number. 4. Missed typing date or time or number (US system). • 15/2/2016 (no 15th month). • 8:00AM (no space between time and AM). • 20.56 (too many decimals). • Rules for when to manually change alignment: 1. Simply change alignment when you prepare a final report and the data will not be used by formula or feature. 2. Do not change alignment for raw data to be used by formula or other features. 1. What it does: i. Excel Table is considered a database table which means that it has a dynamic range that allows you to add or remove new records or columns to the table and all Formulas, Charts, PivotTables, Power Queries and Power Pivot Data Models will be updated automatically (Pivotables, Power Queries and Power Pivot Data Models require you to click the Refresh button). ii. Adding formatting to the entire table. iii. Add sorting and Filter buttons to each field (at the top of each column). 2. How to convert the Correct Data Set to Excel Table: i. With a single cell selected in the Correct Data Set: 1. Insert Ribbon Tab, Table Group, Table Button 2. Keyboard =&gt; Ctrl + T 3. How to name your Schedule: i. With a single cell in Excel Table: 1. Ribbon Design Tab Table Tool, Property Group, Table Name Text Box. 2. Keyboard: Alt, J, T, A, 4. When you highlight the range from Excel Table in your formula or dialog box, the range appears with Table Name and Field Name: Example: if Table Name is Transaction and Field Name is Sales range looks like this: ProdSales[Sales] • The table name appears as the real name: ProdSales. ? The field name is in Square Brackup: [Sales]. 5. To add a new record to the table: • Type a new record in the first row below the table. ? In the last cell in the last record in the table, press Tab. 6. To change excel schedule back to non-Excel Table: ? Right-click. Schedule, Switch to Range. 9) Number formatting is Face: i. Number formatting can display the number on the surface of the cells that can differ from the basic numbers sitting inside the cells. ii. The formula makes their calculations on the actual numbers in the cell, rather than the numbers displayed on the surface of the cell. If you are required to round up your number, such as for invoices, salaries, accounting, use the ROUND function (see section later in this document about viewing). Remember: 1. No formula view Number Formatting. 2. What you see on the spreadsheet surface is not always, what is in cell. V. Examples of Number Format: 1. General Number Formatting: i. General Number Formatting = What you see is what is cells. ii. If you use General Number Formatting, it will delete all previously used Number Formatting to reveal the numbers that actually sit in cells. Using General Number Formatting DELETES all Previously used Number Formatting. iii. General Number Formatting is The default Number formatting on all cells. Ctrl + Shift + ( ) = General Number of Keyboard formatting. 2. Reduce Decimal Number Format: i. A reduced decimal does not remove the basic decimal, but rather, it displays numbers with fewer decimals than the actual numbers sitting in the cell. ii. When you reduce decimals, the amount appears as if it were rounded up, but it wasn't round. If you have invoices, salaries and other numbers that require lining, you must use the ROUND function to round up the numbers to get the correct answer. 3. Accounting Number Format: i. Fixed dollar sign (left edge of the cell). ii. Negative is in brace. iii. Zero is dying. iv. Decimals always line up. V. When you use accounting Number Format, it may hide decimals by displaying less decimals than actually in cells. This can lead to formula errors due to the fact the formula calculates the basic number and not the number displayed. 4. Currency: i. The dollar sign is floating. ii. You choose how to show negative. iii. Zero is zero. iv. Decimals usually line up. V. When you use currency number format, it may hide decimals by displaying less decimals than actually in cells. This can lead to formula errors due to the fact the formula calculates the basic number and not the number displayed. 5. Date Number Format: i. Enter dates with forward slashes (there are other methods) too such as: 3/30/2016. ii. Under Date Number Format is a Serial Number that represents the number of days since 31 December 1899. 1. Example: Jan 1, 1900 = 1 Jan 2, 1900 = Oct 2, 30, 2013 = 41577 Mar 30 = 42459 iii. Some Mathematical Formula Dates: 1. =End Date – Start Date = Number of Days Between Two Dates (Number of days laid invoicing). 2. =End Date – Start Date + 1= Number of Days Between Two Dates Included Start Date (Number of days for a project that includes the start date). 3. = Loan Issue Date + Number of Outstanding Loan Days = Maturity Date. iv. Date/Time Keyboard: 1. Ctrl + ; = Keyboards to enrich today's dates. 2. Ctrl + Shift + ; = Keyboard for the time during hard coding. 6. Time Number Format: i. Enter the hour, colon, minutes, colon, seconds, then space, and AM or PM (there are other methods as well) such as: 8:00 AM. ii. Under Time Number Format is a serial number that represents the proportion of one day 24 hours. 1. Example: 8:00 AM = 8/24 = 1/3 = 0.333333333333 12:00 PM = 12/324 = 1/2 = 0.5 3:00 PM = (12 + 12 + = 15/24 = 5/8 = 0.625 iii. Some Mathematics Formula Time: 1. =(End Time – Start Time)/24 = Working hours in non-night shifts. 2. =MOD (End Time – Start Time,1)\*24 = Working hours on day or night. iv. Date/Time/Time 1. Ctrl + ; = Keyboards to enrich today's dates. 2. Ctrl + Shift + ; = Keyboard for the time during hard coding. 7. Percentage Number formatting: i. What is the percentage? 1. What is the total portion of 100? i. If the tax rate is 9.95%, this means that you will need to pay 9.95 cents from every 100 cents (or one dollar). ii. What is Percentage Number Format: 1. For numbers 0.03, Percentage Number format displays numbers with: i. Decimals wind up two positions on the right and ii. Percentage mark. iii. 0.03 to 3.00% 2. For a tax rate of 1.45%, you need to keep in mind that the base number is 0.0145. 8. Custom Number Format: i. There are four sections for Custom Number Formatting, each separated by semi-colon: &lt;POSITIVE&gt;&lt;NEGATIVE&gt;&lt;ZERO&gt;&lt;TEXT&gt;ii. In general, in this class we will learn some basic code for Custom Number Formatting and depending on finding the code when we need it. We will learn some types of Basic Custom Number Formatting: 1. Date. 2. Time. 3. Percentage 4. Significant and insignificant decimals. 10) Style formatting allows you to present information in an effective manner. i. Style Formatting involves formatting such as: 1. Bold. 2. Fill in the color. 3. Font Color. 4. Border Alignment. 5. Font Size. 6. Font Type. 7. Wrap words i. Alt + Enter = Add Rest Manual Line (Word Wrap) ii. Style Formatting Guidelines: 1. Use the minimum amount to communicate messages effectively. 2. Consistency. 3. All numbers should have the same number of digits. 4. Units must be indicated either by Number Formatting or Label. iii. Two Schools of Thought for Style Formatting: 1. Minimalism School says: i. Field names or column headers should be bold. ii. Use Number formatting several times. iii. Do not use alignment. iv. The default grey line in a spreadsheet is the only boundary you need. V. Sometimes red is used to show interest. 2. More Than Minimum Schools says: i. Field names or column headers can have a Filling Color and Font Color, but are consistent. ii. Font color and Fill color must have a huge difference in value so that it is easy to read. 11. Dark Blue Fill and White Font Color have a huge difference in value. 2. Red Fill Color and Black Font Color DO NOT have a huge difference in value. Excel Advanced Training for ICPAU in collaboration with Summit Consulting Ltd Contact: Pontian Kay (+256790790707) Page 12 of 156 iii. Use number formatting consistently. iv. Black borders can be okay for data tables. V. Use similar color schemes across tables, charts, PivotTable, Omissions and other objects. iv. Cell Style 1. Allow you to save a set of &lt;Style Formatting; Number and use it as often as you need. 2. Add New Cell Style: i. Add style to cell ii. go to the Styles Set in the Home Reben and click on the Dropdown arrow of Cell Styles or More button and click on New Style. This opens the Styles dialog box. iii. Name style iv. When in the Style dialog box, you can use the Format button to add more styles if you want 3. To use Cell&lt;TEXT&gt;&lt;ZERO&gt;&lt;NEGATIVE&gt;&lt;POSITIVE&gt; select the cells and use a new style from the Style group in the Home Ribbon Tab. Advanced Excel Training for ICPAU in partnership with Summit Consulting Ltd Contact: Pontian Kay (+256790790707) Page 13 of 156 11) Page Setup allows you to print information by way of impact i. Page Setup dialog box 1. Open the Page Setup dialog box keyboard = Alt, P, S, P 2. Page Setup dialog box i. Page tab: 1. Orientation: i. Landscape when the table is wider than high. ii. Portrait when it is higher than the wide. 2. Scaling: you can shrink or enlarge how information will appear when it prints out. 3. Fit: i. Allows you to take a table that is slightly larger than the page and shrink it to fit on the page. ii. If you type 1 for a wide page and leave the blank text box (press the delete key) for the high page, the information will always fit a wide page, but it will print as many pages as high as you need. This is great if you have an expanded schedule, or you don't know how many pages are high in information. Margin tab: Set the margin on the edge of each page. Header/Acting Tab: 1. Header 3 part: i. Preview: gives you a preview. ii. Built-in: select from the drop-down list. iii. Custom Scank: Allows you to type a credention or choose from several different options (button). iv. Sheet Tab: 1. Set Print Area: Select only the range you want to print. This is great when you want to exclude data and calculations that are not part of the final report. 2. Columns to repeat on The Left: Prints the highlighted columns on each page. This is great for a large table, such as when you want to repeat the name on the left-hand side of each page. 3. Lines to repeat on Top: Prints the highlighted row at the top of each page. This is great for a large table, such as when you want to repeat the field name at the top of each page. i. Effective: Achieve the stated goals. Example: • Use COUNTIFS to calculate the correct number for how many Ford cars are sold. • Use the correct Number Format to display the same number as the base number in the cell. ii. Efficient: Achieving goals with a minimum number of resources and having an accomplished goal has the ability to adapt to future changes. Examples of tasks that achieve goals with a minimum number of resources (where resources are the time to create solutions) are: i. Use Mixed Cell Reference and COUNTIFS functionality to build a cross-decrypted table with single rather than many formulas. ii. Use keyboard shortcuts to access most tasks, rather than slower methods such as using the Ribbon Tab, Menu or scroll bar. 3. Examples of tasks that achieve the stated goals and have the ability to adapt to future changes are: i. For a formula that calculates tax deductions, you must put tax rates in cells, label them and refer to taxes in the formula with cell references. This way if the tax rate changes, it's easy to update it later. The input of the hard blocking formula into the formula makes it time-consuming and difficult to update the formula later (and #1 causes of spreadsheets). Formula such as =ROUND (A44\*0.0765,2) is very inefficient and error exposed. ii. Formulas such as =SUM(A1:A5) instead of =A1+A2+A3+A4+A5 will be updated if the row is entered on line four. iii. Class Goals: Develop Effective and Efficient Solutions in Excel to Calculate Performing Data Analysis. 1. Open a new workbook 2. Select DATA.... Get External Data.... From Text Figure 1: Imports text files 3. In the Import Text File dialog, visit, select and import files from the product sub-folders under the file folder. 4. In the Import Text Wizard that appears (See Figure 2: The Text Import wizard below) leaves the default selection of the selected file type as we import the celebrated tab files (separated). 5. From the imported file preview, you'll also note that the file has a header. For that reason, please check the Data check box I have the header as shown in (Figure 2: Import Wizard Text below) Figure 2: Import Wizard Text 6. Click Next 7. In step 2 of the Wizard, (See Figure 3: Effect selects the correct text), you'll notice that the delimiter tab is checked by default. Please keep it checked since our delimiter is tab Figure 3: Effect of choosing the correct text delimiter 9. Click next 10. In the wizard's final step (See Figure 4: Define the field data format below), we specify the data format for each field. Figure 4: Determining field data format 11. Click Finish We want imported data starting on A1 Cell. If A1 isn't the selected cell, please change it by editing the contents of the box below to match what you see. 12. Click OK We have just completed the procedure for importing text files using Microsoft Excel. When you use a template, all you need to do is replace the information in a work set with your own. They help you save time oodles and keep your work squatters consistent. You can also edit the template, or create your own and then use it again and again. Changing the default workbook template Every time you open an empty workbook in Excel, you open a template – one in which margins, fonts, and themes have been defined. This is the default template. This is the default template, but it's still a template. You can edit this template the same way you'll edit the fancier template, then save it as a new template. To create a new template, open the workbook (or create a workbook) you want to use as a template. Everything you see or add to a workbook will be part of the template. When you workbook the way you want your template, click File, and then Save As. Select a location to save the workbook, and then choose to save the workbook as an Excel Template. Now when you open open what you need to do is customize it for the new workbook, and then save the new workbook. Select the template you want to use by clicking on it. Click the Create button to create the template. We've selected the Calendar Any Year template and we click Create. Excel loads the template for you. Finding an Excel Template gives you several ways to find the template you want. At the top of the screen (File&gt;New), you'll see this: You can type the type of template you want. Let's say we want a calendar. Type in the calendar. Excel then searches its online database for the calendar template, then shows you the result: On the right, you will see a category window where you can search for calendar templates by category. Just click on the category to see the calendar. Customize the template Let's go back to our Calendar template we showed earlier: Once you open the template, you can now make changes to it. You can change the font size, font color, etc. if you want, and you can also customize the data. To edit the data, click on the cell. It then selects the cell, as shown below. Now just type in the data you want. We can also change the template style. Note below that we have clicked on the cell containing april. Although the cell is selected, you can also look in the Styles gallery to see the style used on it. You can customize the style to change the formatting. Click on any image in the template, and you'll see a bound box appear around it: You can then crop or copy the image. Opening Microsoft's Existing Templates provides several templates to make your work easier. If you have already opened Excel, you can view the template by clicking the File tab, and then going to New. You can then see the template as you did on the start screen. As you can see, a blank workbook template appears first, followed by an Excel 2013/2016 visit. After this, you can see all the templates. Select the template you want to use by clicking on it. EFFICIENCY AND RISK Protecting individual cells In this topic, we see how to lock individual cells in Microsoft Excel working tool. The procedure to use depends on whether you want the majority of cells in the work poem to remain locked or unlocked. NOTE: If you lock cells and protect work sets, then you should not type data into cells, customize existing data in cells, or exchange other cell attributes (such as cell formatting). To unlock individual cells in an Excel work set, use one of the following procedures. To lock the majority of cells in a working poem: Select the cells you want to remain unprotected. To select cells that are not contiguous (not self-aware), press and hold CTRL clicks of cells that remain unregried. 1. Show the format cell dialog box by clicking the Expand button to the bottom right of the Home ribbon font section, and then clicking the Protection Tab. Click to clear the Locked checkbox and click OK. 3. Click the Review tab, and Protect the Sheets. Type a password if you want one, and then click OK. To leave the majority of cells on an unlocked worksheet: Select the entire work sheet by clicking the Select All button (gray rectangle in the upper left corner of the work squatter where the row 1 and title column A meet), or by pressing CTRL+A or CTRL+SHIFT+SPACEBAR. 1. Show the format cell dialog box by clicking the Expand button to the bottom right of the Home ribbon font section, and then clicking the Protection Tab. Click to clear the Locked checkbox and click OK. 2. Select the cells you want to protect. To choose non-adjacent (unconscious) cells, press CTRL directly and click the cells you want to protect. 3. Return to the Format Cell dialog box, and then click the Protection tab. Click to select the Locked checkbox, and then click OK. 4. Click the Review tab, and click Protect Sheets. Type a password, if you want one, and then click OK. Protect the Add protection work set to the work set so that others can't edit it. You can lock a cell or an entire work set. We looked in previous topics on how to lock individual cells. To protect the workshoo, go to the Review tab, and then click

