

THE ULTIMATE HANDBOOK TO BECOME AN EXCELNINA By

CA. RISHABH PUGALIA



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Note from the Author:

Hi there!

In the last 12 years, I have been an auditor, an interest rate futures trader, a debt capital markets analyst and an Excel & PowerPoint Trainer. I loved all the roles. However, the current one stands first among equals.

After having interacted with almost 10,000 professionals across the country as a Trainer, I gathered a solid sense of how they could significantly increase their productivity 3x - 10x with little effort. And the best outcome of the learning is that the improvement becomes permanent. I am fortunate that my workshops' attendees loved my way of explaining concepts and more importantly the way my case studies could relate to their work.

While some struggle with applying basic VLookups (one dimensional), I would help them learn 2-D, 3-D, reverse lookups. And that is what my latest online program is all about – expanding the possibilities and make it attainable through bite-sized manageable learning steps.

To make the online learning more effective, I have prepared a picture based eBook for everyone's reference. The content has been mapped to the video lectures for convenient reference and revision. My friends complain that I talk in bullet points (in other words express more in less words). Well, this book does exactly does that – less words, more pictures and illustrations. I do not want my programs' attendees to add another thick fat Excel handbook on their shelves for aesthetic display of their interest in Excel. I want this Ultimate HandBook on their desktops and in their hands (print version).

I hope you love this book as much I loved making it.

Regards,

CA Rishabh Pugalia, Co-Founder, Yoda Learning Solutions

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Advanced Excel Ninja – by CA Rishabh Pugalia

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#0101 – 0109: Super Essential Keyboard Shortcuts

Starters			
1	Alt	Press and release the ALT key to display the Key Tips next to each Ribbon command	
2	Ctrl C ; Ctrl X ; Ctrl V	Copy ; Cut; Paste	
3	Ctrl D	Copies the cell contents down	
4	Ctrl R	Copies the cell contents to the right	
5	Ctrl Enter	To fill all the selected cells with text/nos./formula	
Work	book Navigation		
6	Ctrl PgDn	Moves to the next sheet	
7	Ctrl PgUp	Moves to the previous sheet	
Sheet	Navigation & Cell(s) Sele	ction	
8	Ctrl A	Selects the entire worksheet/data array depending on active cell selected	
9	Ctrl Arrow key	Moves to the edge of a data block; if the cell is blank, moves to the first nonblank cell	
10	Shift Arrow key	Expands the selection in the direction indicated (one cell at a time)	
11	Ctrl Shift Arrow key	Select from the active cell to the end of a row/column	
12	Ctrl Shift End key	Selects from the active cell to the last used cell	
13	Ctrl BackSpace	Navigate to the beginning of selected data (keeping the selection intact)	
14	Shift Spacebar	Selects the entire row(s) in the selected range	
15	Ctrl Spacebar	Selects the entire column(s) in the selected range	
Row/	Column - Add or Delete		
16	Alt I C	Insert Column	
17	Alt I R	Insert Row	
18	Ctrl Shift +	Displays the Insert dialog box to insert new cells/rows/columns	
19	Ctrl -	Displays the Delete dialog box to delete the selected cells/rows/columns	
Formula Ninja			
20	F4	Repeats the last command or action, if possible	
21	F4	Also, used for Cell referencing (\$); discussed later	
22	F2	Begins editing the active cell	

23	Ctrl `	Displays the formula in each cell instead of the resulting value [Hint:`is back tick key above the TAB key]	
24	Ctrl [and F5+Enter	Navigate to precedent cells and return back [*conditions apply]	
25	ALT =	Auto sum	
26	Ctrl A after formula open	Opens up "Function Arguments" box E.g. After writing =SUM(, press Ctrl A	
27	Shift F3	Call out "Insert Function (fx)"/"Function Arguments" dialog box	
28	Tab and Shift Tab	Moves down / up amongst a series of tabs/boxes	
Forma	t		
29	Ctrl 1	Activates "Format cells"	
30	Ctrl ;	Inserts today's date	
31	Ctrl Shift 3	Changes the date format to "22-May-2015"	
32	Alt H K	Applies the Number format with two decimal places, thousands separator, and minus sign (-) for negative values	
Miscl			
33	Ctrl F2	Print Preview	
34	Ctrl F1	Displays or hides the ribbon	
35	Alt ;	Selects visible cell from the selection	
Paste Special			
36	Alt, E, S, V ENTER		
37	Ctrl Alt V V Enter	Paste Special - Value	
38	QAT		

#0201: Used in Financial Modeling and Tax Computation		
MAX(number1, [number2],)	 Used in Tax Computations & Financial Models to prevent choosing of negative numbers for subsequent calculations. E.g. =MAX(0,A1) chooses 0 or value in cell A1, whichever is higher E.g. Penalty for late deposit = higher of 2% of dues or Rs.100 	
MIN(number1, [number2],)	 Used in logics such as "lower of the two numbers" in the area of Tax Computations, specific areas of Financial Engineering =MIN(A1:A5) is same as =SMALL(A1:A5,1) 	

#0202: Used in pricing discovery processes

=LARGE(Auction such as highest bid value, second highest bid value and so on. E.g. H2 will be =LARGE(A1:A5,2)
SMALL(Vendor evaluation such as lowest bid value L1, second lowest bid value L2 and so on. E.g. L2 will be =SMALL(A1:A5,2)

#0203 – 0204: For rounding numbers	

ROUND(number, num_digits)	 "num_digits" signifies "number of decimal digits". E.g. For the starting number 52.233 – "2" implies 52.23, "1" implies 52.20, and 0 implies 52.00 =ROUND(A1/50, 0) * 50 [implies nearest 50] – same technique also applicable with ROUNDUP & ROUNDDOWN E.g. Cell A1 = 5344.2 =ROUND(A1/10,0)*10 = 5340.0 	
ROUNDDOWN(number, num_digits)	 E.g. Cell A1 = 5349.2 =ROUNDDOWN(A1/10,0)*10 = 5340.0 	
ROUNDUP(number, num_digits)	 E.g. Cell A1 = 5342.2 =ROUNDUP(A1/10,0)*10 = 5350.0 	
 MROUND() do not work with +/- nos. simultaneously AND it does not accommodate the logic of round up and round down. 		

#0205: For Counting

COUNT(value1, [value2],)	•	Counts the number of cells which have numeric value
COUNTA(value1, [value2],)	•	Counts the number of cells which IS NOT a blank (i.e. numbers, alphabets, alphanumeric, space)
	•	Counts the number of cells which IS a blank
COUNTIF() and COUNTIFS() will be discussed later in the book. COUNTIFS() is a logic based cell counting mechanism		

#0206 – 0207: For Weighted Average & Compounding/Discounting		
=SUMPRODUCT(SUMPRODUCT(array1, [array2], [array3],)	 Multiplies corresponding cells in two or more ranges and returns the sum of those products. E.g. =SUMPRODUCT(A1:A2,B1:B2) = (A1*B1) + (A2*B2) The array arguments must have the same dimensions. E.g. =SUMPRODUCT(A1:A2,B1:<u>B3</u>) is invalid Used with =SUM() for computing weighted average Was used to create condition—based sum logic before SUMIFS() was introduced 	
POWER(number, power)	 Used in Financial Modeling – discounting cash flows, compounding Caret sign (^) is a perfect substitute. E.g. 25 =POWER(5,2) and is same as =5^2 	

#0301 – 0302: Formatting Tricks incl. Special Custom Formats [Shortcut: Ctrl 1]

CUSTOM FORMAT	EFFECT
@*.	"Cell width adjusted" trailing full stops
"Rs."	Prefix/Suffix
000000	Self-adjusting Prefix Zeroes (up to 6)

• "Double–click" Format Painter to use it uninterruptedly. Press <Esc> to return escape out of Format Painter mode.



#0303 – #0304: Using CELL STYLES for automating formatting for MIS Reporting & Financial Models

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Cipboard	181		Font	. 191	Alignment	121	i Nur	liber	CY	'oda Learnir	ng Solutio	ns	Cells

"<u>New Cell Style</u>" lets you create customized cell format which you can apply and re–apply on any worksheet of the workbook. Additionally, if you change the "definition" of any existing cell style, the changes are universal. Thus, **modifying** a cell style affects all cells in a workbook that use that cell style. This can save a lot of time.

←.0 .00 Format	≠ ↓ tional Format as (tting ▼ Table ▼ Sty	Cell Insert Dele	K III te Format ▼ Cle	toSum • A - Z Sort & F ar • Filter • So	ind & elect •			
Good, Bad and Neutral								
Normal	Bad	Good	Neutral					
Data and Model								
Calculation	Check Cell	Explanatory	Input	Linked Cell	Note			
Output	Warning Text							
Titles and Headin	gs							
Heading 1	Heading 2	Heading 3	Heading 4	Title	Total			
Themed Cell Style	es							
20% - Accent1	20% - Accent2	20% - Accent3	20% - Accent4	20% - Accent5	20% - Accent6			
40% - Accent1	40% - Accent2	40% - Accent3	40% - Accent4	40% - Accent5	40% - Accent6			
60% - Accent1	60% - Accent2	60% - Accent3	60% - Accent4	60% - Accent5	60% - Accent6			
Accent1	Accent2	Accent3	Accent4	Accent5	Accent6			
Number Format								
Comma	Comma [0]	Currency	Currency [0]	Percent				
<u>N</u> ew Cell Style <u>M</u> erge Styles				© Yod	a Learning Solutions			

- Right click a cell style to modify or delete it.
- A cell style is stored in the workbook where you create it.
- Open a new workbook and click on "Merge Styles" (beneath New Cell Style) to import a cell style (keep the old workbook with the original cell style <u>open</u>).

#0305 - #0307: Cell drag-n-drop Auto Fill Options



- Also, refer =EOMONTH() for formula based Fill Months (1), Fill Quarters (3) and Fill Years (12)
- If the fill-handle doesn't appear or the mouse cursor isn't allowing you to draw the contents of a cell, please check if the "<u>Enable fill handle and cell drag-and-drop</u>" setting is turned ON.

© Yoda Learning Solutions	Excel Options
General Formulas	Advanced options for working with Excel.
Proofing	Editing options
Save	After pressing Enter, <u>m</u> ove selection
Language	D <u>i</u> rection: Down 🗸
Advanced	Automatically insert a decimal point
Customize Ribbon	Places: 2 ÷
Quick Access Toolbar	✓ Alert before overwriting cells

#0308: Paste Special – Transpose vs. TRANSPOSE()

- <u>Paste Special Transpose</u> switches/re–arranges the data in a table from rows and columns to columns and rows, respectively. However, it doesn't create "links" to the original cells. Thus, any change in the original table will not affect the "transposed" table.
- Writing a <u>=TRANSPOSE() formula</u> with <u>Ctrl + Shift + Enter</u> will create links too
 - Copy the data set to be "transposed"
 - Paste Special Transpose
 - <Delete> cell values but keep the cell selection intact (this is to avoid counting the original cells and carefully select a fresh range in line with that)
 - Directly type <u>=TRANSPOSE(</u> and then, choose the original range of data, say A1:B5
 - Close the parentheses ")" and press Ctrl + Shift + Enter together to enter the formula as an "array" formula

#0401 – 0402: Absolute & Relative referencing using \$ (Locking the cell/range)

After selecting a cell or a range of cells, keep pressing the function key <F4> to toggle between the four combinations of cell referencing (as indicated):

= <mark>A1</mark>	=\$A\$1	=A\$1	=\$A1
-	Row Fixed&Col Fixed	Row Fixed	Col Fixed
A1 becomes B1 if copied sideways (right)	\$A\$1 remains \$A\$1 if copied sideways	A\$1 becomes B\$1 if copied sideways (right)	\$A1 remains \$A1 if copied sideways
A1 becomes A2 if copied downwards	\$A\$1 remains \$A\$1 if copied downwards	A\$1 remains A\$1 if copied downwards	\$A1 becomes \$A2 if copied downwards





Often used with <u>Ctrl+Enter</u>: With multiple cells selected (can be non-contiguous), this shortcut will enter the same data
/ formula logic in all cells in the selection at once.

#0601: Vertical Sort - 1-level & 2-level

				S	ort			?	×
*	Add	Level	X Delete Level	E Copy Level	▲ ▼ <u>O</u> ptio	ons	🗌 My data	a has <u>h</u> e	eaders
Co	olumn			Sort On		Order			
So	ort by		~	Values	~	A to Z			~
				Values Cell Color Font Color Cell Icon					
						Valu	Sort o ies, Cell C	n olor (etc.
			© Y	oda Learning Solutions			ОК	Can	cel

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#0602: Custom Sorting

 "Order" > "Custom": allows to prepare own custom sequence in which the data can be sorted. E.g. Partner, Director, Sr Manager, Manager, Analyst <u>OR</u> North, East, West, South

			Sort			?	×
* <u>A</u> ↓ <u>A</u> dd Level	X Delete Level	ြေး <u>C</u> opy Le	vel 🔺 🔻	Option	s	My data has	s <u>h</u> eaders
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					A to Z		
					Custom List		
			© Yoda Le	arning Sol	utior <mark>s Ok</mark>	(C	ancel
		Cu	stom Lists			?	×
Custom Lists Custom lists NEW LIST Sunday, Mo Jan, Feb, M January, Fe North, East Director, Sr	; Tue, Wed, Thu, Fr onday, Tuesday, V ar, Apr, May, Jun, bruary, March, Ap bruary, March, Ap West, South Manager, Manag	List No Ea: Ve Jt So Dri gei t entries.	entries: orth st est uth	Add	d your o	<u>A</u> do Delet	te
				custo	m list ei	ntries.	
			© Yoda Learnin	ig Solution	IS OK	Cai	ncel

#0603: Sort Trick - add alternate blank rows in-between existing rows

	А	В	С	D	E	F	G	н	
1	Zone	Amt. \$	DUMMY SN			Zone	Amt. \$	DUMMY SN	
2	North	1,612	<u>ا</u>			North	1,612	1	
3	North	285	2					1	
4	North	611	3			North	285	2	
5	East	501	4					2	
6	East	241	5			North	611	3	
7	West	586	6					3	
8	West	1,213	7			East	501	4	
9	West	374	8					4	
10	South	9,321	9			East	241	5	
11	South	324	10	0				5	
12	South	2,775	11	R		West	586	6	
13	South	1,954	L 12	т				6	
14			ſ 1			West	1,213	7	
15			2					7	
16			3			West	374	8	
17			4					8	
18			5	_		South	9,321	9	
19			6					9	
20			7			South	324	10	
21			8					10	
22			9			South	2,775	11	
23			10					11	
24		© Yoda Learnii	ng Solutions 11			South	1,954	12	
25			L 12					12	

#0604: Horizontal Sorting (Left to Right)



- "Options" > "Horizontal Sort > Left to Right": is used to re-arrange the columns all at once, without using "Cut" & "Insert Cut Cells" for each instance
- Using synthetic "DUMMY Serial No." column helps (1) create blank rows in-between and, (2) remember the original sequence of row items

#0605 - 0606: Filter - Choosing the dataset correctly

 Choosing just the header row/cells before applying Filter will lead the "Filter" to ignore the data rows after the blank row.

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8												
9	9 Apeejay Business Centre			India	Gurga	ion Ap	eejay Ho	lse	14	16,500		
10	10 Universal Shipping & trading Co.			India	Gurga	on Ste	ephens Ho	ouse	19	95,800		
11	11 Sancheti group			India	Kolka	ta Sh	antiniketa	n	14	10,900		
12	12 Dension Hydraulics India Ltd.				India	Mum	bai Sh	antiniketa	n	12	27,100	
13	Netv	vork Ltd.			India	Gurga	ion Sh	antiniketa	an	9	99,000	

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7	Bokahola	rea Co	Pvt Ltd		India	Gurgaon	Siddha Poir	t	148,100	
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13	13 Network Ltd.					Gurgaon	Shantiniket	an	99,000	l l

#0607: Filter analysis w. shortcuts

1.	Alt, A, T	Apply/Deactivate Filter on selected data set
2.	Alt + down-arrow	To open up the Filter drop-down options from the header row
3.	Spacebar	To check ON/OFF square checkbox
4.	Home	To quickly reach to the beginning of the options in list of square checkboxes Used to "Select All", which is placed at the beginning of the list.
5.	End	To quickly reach to the end of the options in list of square checkboxes. Used to navigate to the "(Blank)" or "#N/A" option, which are placed at the bottom of the list.
6.	Alt =	E.g. To generate a =SUBTOTAL(9,\$C\$2:\$C\$200) formula for AutoSum

#0608 - 0609: Using =SUBTOTAL() for calculations w. Filtered list.



#0610: Filter - Applying 2 or more Filters simultaneously on the same sheet

 Creating two (or more) distinct Filtered list on the same sheet is not possible through "Data" tab > "Filter". Instead, use "Insert" tab > "Table" (or Ctrl + T)



	A	В	С	D E
1				
2	Client Name 🗾 🔽	Location 🛛 🔽	Amt. 💌	
3	Titan Industries Ltd.	Park Plaza	128,700	
4	The Mysore Paper Mills Ltd	Shantiniketan	52,600	
5	Mail SeaNav Pvt. Ltd.	Shantiniketan	82,900	
6	A.J. Finance Pvt Ltd	Apeejay House	76,200	
7	Bokahola Tea Co Pvt Ltd	Siddha Point	148,100	
8				
9				
10	Client Name 🔽	Location 🛛 🔽	Amt. 🔽	
11	Apeejay Business Centre	Apeejay House	146,500	
12	Universal Shipping & trading Co.	Stephens House	195,800	
13	Sancheti group	Shantiniketan	140,900	
14	Dension Hydraulics India Ltd.	Shantiniketan	127,100	
15	Network Ltd.	Shantiniketan	99,000	
16		C	Yoda Learn	ing Solutions

#0611: Filter - Color Filter & Text Filter

2↓ ∡↓	<u>S</u> ort A to Z S <u>o</u> rt Z to A		
	Sor <u>t</u> by Color	•	
T _×	Clear Filter From "Location"		
	Filter by Color	(F)	
	Text <u>F</u> ilters	×.	<u>E</u> quals
	Search	Q	Does <u>N</u> ot Equal
	·····✔ (Select All) ·····✔ (Blanks)		Begins W <u>i</u> th Ends Wi <u>t</u> h
			Cont <u>a</u> ins <u>D</u> oes Not Contain
			Custom <u>F</u> ilter
	ОК	Cancel	© Voda Learning Solutions

#0612 - 0614: Advanced Filter

"Advanced Filter" can simultaneously pick up differential criteria unlike "Filter". E.g. List of clients from "Park Plaza" with amount ">70,000" AND from "Shantiniketan" with amount ">50,000" has to be extracted in one go.

FI	LE HO	ome in	ISERT	PAGE LAYO	JT FO	RMULAS	DATA	REVIEW	VIEW	DEVELOPER	
P	City	Location		Amt. \$		🖉 Conne	ections			Clear	
	Kolkata	Park Plaza		128,700		📰 Prope	rties	~	7	Reapply	
Fre	Kolkata	Shantinike	etan	52,600	Kefresh	D Edit Li	nke	A Sort	Filter	Advanced	
Acc	Gurgaon	Shantinike	etan	82,900	All *	I CO CUTC EI	1153	1.4.7	2	- Advanced Co	
	Gurgaon	Apeejay H	ouse	76,200	1 0	Connection	s	Sc	ort & Filter		
	Gurgaon	Siddha Poi	int	148,100					_		
B2	Mumbai	Shantinike	etan	83,400			-		*		
	Gurgaon	Apeejay H	ouse	146,500	W.			Advanced	Filter	? ×	
	Gurgaon	Stephens I	House	195,800	B			, lavaneea .			
	Kolkata	Shantinike	etan	140,900			Acti	on			
	Mumbai	Shantinike	etan	127,100			***. C	Filter the list	in-place		
	Gurgaon	Shantinike	etan	99,000		-					
	Gurgaon	Shantinike	etan	167,700				Copy to anot	iner iocaci	ion	
	Mumbai	Apeejay H	ouse	113,400			List	range:		1	
	Kolkata	Apeejay H	ouse	186,500				aria range		E.C.	
	2						<u>c</u>			EX	
	Locatio	n	4	Amt. \$		*********	Cop	y <u>t</u> o:			
	Park Pl	aza	>	70000				Jnique <u>r</u> ecord	s only		
	Shantir	niketan	>	50000	© Yoda	Learning	Solutions	0	к	Cancel	

"Destination" Select start cell

Criteria	Records selected
Р	Start with the character- P
Park	Start with the word- Park
="=P"	Only contain the character- P
'=P	Only contain the character- P
="=Park"	Only contain the text- Park
'=Park	Only contain the text- Park
-"-62NI"	Contain text that begins with S, has one character, and then the letter N (may be more than 3 characters
3!11	long)
'-S2N	Contain text that begins with S, has one character, and then the letter N (may be more than 3 characters
-3:N	long)
="=S*N"	Contain text that begins with S, has one or more other characters, and then the letter N
'=S*N	Contain text that begins with S, has one or more other characters, and then the letter N
=	Contain a blank
\diamond	Contain a non-blank entry
<>A*	Contain any text except text that begins with A
<>*A	Contain any text except text that ends with A
'=???	Contain exactly 3 characters
<>????	Does not contain exactly 4 characters
NOTE: Tex	t filters are not Case Sensitive

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#0701 - 0702: Every valid date (i.e. date that can be understood by Excel) is a number

- 2-Jan-1900 is 2 days away from 31-Dec-1899 and hence, read by Excel as 2.0
- Use **=ISNUMBER()** to detect validity of Dates entered i.e. whether the displayed date is a number
 - Use "Format Cells" or Ctrl + 1 to change the "skin" or the display value of the date
 - Use "Comma Style" or "General" to display the number
 - **Ctrl + Shift + 3** will convert a correct date's display value to dd-mmm-yy format or 22-Jul-2015.
- Microsoft OS: Control Panel > Region & Language > Settings to change the format of the date input accepted by Excel







#0704: Extracting date information

- Converts the date into Custom format. E.g. "mmmm-yyyy" will display June-2011
- Important: Resultant answer value is not a date value but a text value. Used for display purposes and not for subsequent formula computations.



#0705: Date Formulas - WEEKDAY(), WORKDAY(), NETWORKDAYS()

=WEEKDAY(E.g. 1=Sunday, 2=Monday, 7= Saturday Used with IF() to write day based logical formula. E.g. =IF(WEEKDAY(A1)=1,"Holiday","Office Day") Scheduled public holidays can also be excluded
=WORKDAY(WORKDAY(start_date, days, [holidays])	 Returns the date before or after a specified number of weekdays (weekends excluded). It excludes start date in computing final answer. E.g. If Cell A1 is 30-Dec-2011, then <u>=WORKDAY(A7,5)-1</u> will return 5-Jan-2012. 1-Jan-2012 is a Sunday and hence, excluded. Scheduled public holidays can also be excluded Used to calculate deadline/due date calculations
=NETWORKDAYS(NETWORKDAYS(start_date, end_date, [holidays])	 Returns the number of weekdays (weekends excluded) between two dates. It includes start date in computing final answer. Scheduled public holidays can also be excluded Used to calculate no. of business days between two dates

 WORKDAY.INTL() and NETWORKDAY.INTL() have been introduced from v. 2010 onwards. They incorporate the logic that multiple country may have different weekends. Refer Lecture #0706-#0707.

#0706: WORKDAY.INTL() for deadline/due date calculations w. custom weekends/holidays

=WORKDAY.INTL(WORKDAY.INTL(start_date, days, [weekend], [holidays])								
Saturday and Sunday are weekend days (a) 1 - Saturday, Sunday (a) 2 - Sunday, Monday (a) 3 - Monday, Tuesday (a) 4 - Tuesday, Wednesday (a) 5 - Wednesday, Thursday (a) 6 - Thursday, Friday (a) 7 - Friday, Saturday (a) 11 - Sunday only (a) 12 - Monday only (a) 12 - Monday only (a) 13 - Tuesday only (a) 14 - Wednesday only (b) 15 - Thursday only (c) 16 - Friday only (c) 17 - Saturday only (c) 17 - Saturday only	 Returns the date before or after a specified number of weekdays (weekends excluded). It excludes start date in computing final answer Scheduled public holidays can also be excluded Used to calculate deadline/due date calculations and in Project Management How is it different from =WORKDAY() Allows the user to specify which days are counted as weekends. E.g. 7 = Fri/Sat are weekends as followed by Saudi Arabia 							

#0706: NETWORKDAYS.INTL() for no. of business days calculations w. custom weekends/holidays



#0708: Date Formulas - TODAY() and NOW() w. Shortcut

=TODAY()	 Returns the current date as per PC's system clock Updates every time the file is opened (dynamic) Ctrl + ; and press Enter - for inserting current date (static)
=NOW()	 Returns the current date and time as per PC's system clock Updates every time the file is opened (dynamic) Ctrl + Shift + ; and press Enter - for inserting current time (static)

#0709: Date Formulas - EOMONTH() for Financial Modeling, Budgets, Due Dates

	•	Returns the last day of the month before or after a specified number of
EOMONTH(start_date, months)	•	months. Used for due dates computations such as 5 th of next month, end of current month Used for creating timelines in Budget & Forecast models – MoM, QoQ, YoY

#0710 Date Formulas - EDATE() for Financial Modeling, Budgets, Due Dates

EDATE(start_date, months)	 Returns the date that represents the indicated number of months before or after the start date. E.g. 60 days vs. 2 months Used for computing 3 months' notice period end date, retirement age, probation period, contract deadline, EMI installment due date
---------------------------	---

#0801 – 0802: Data Validation - Drop Down List & Range naming

FILE	HOME	INSERT	PAGE LAYOU	T FORMULAS	DATA	REVIEW	V VIEW	DEVELOP	ER					
		¢		Conn	ection: A		$ \mathbf{Y} $	Clear			→	B	₽	?
From Access	From From Web Text	From Other Sources •	Existing Connections	All - Bedit L	inks A	↓ Sort	Filter	Advanced	Text to Columns	Flash Fill	Remove Duplicates	Data Validation -	Consolidate	What-If Re Analysis ▼
	Get Ex	ternal Data		Connection	IS		Sort & Filte	er				😸 Data <u>\</u>	alidation	
F6	- :	XV	fx									🧑 Circle	Invalid Data	
					1				1			🥳 Clea <u>r</u>	Validation Cir	cles
	9 Yoda A ear	ning Sol B	tions C	D		E	F	G		Н			J	K

Data Validation 🛛 ? 🗙	Data Validation 🕴 🗙
Settings Input Message Error Alert Validation criteria Allow: Any value Any value Whole number Decimal	Settings Input Message Error Alert Validation criteria Allow: List v V Ignore blank Data: between v Source:
Date Time Text length Custom Apply these changes to all other cells with the same settings © Yoda Learning Solutions Clear All OK Cancel	Apply these changes to all other cells with the same settings © Yoda Learning Solutions. Clear All OK Cancel

Source: Accepted,Rejected	•	Hard-coded values separated by comma
Source:	•	Cell range containing input values
Source:	•	Named cell range from same/different worksheet. Refer cell/range Naming via-name Box. The prefix = (equal sign) is important here.

Note: (1) =INDIRECT() w. named ranges and (2) =OFFSET() can also be used to create dynamic ranges.



- NAME MANAGER: Cell(s) / Range Naming Editing / Deleting "names" / "referred range"
- CREATE FROM SELECTION: for bulk naming

					For bulk	-naming
FORMULA	S DATA	REVIEW	VIEW DEV	ELOPER		
xt Date & Loo Time * Refe rary	οkup & Math 8 erence * Trig *	More Functions *	Name Manager Def	Define Name × Use in Formula × Create from Selection fined Names	on Remove	ecedents 🧏 Show Fo pendents 🍓 Error Ch Arrows 👻 🔊 Evaluate Formula Auditin
D	E F	G	н	1.1	J	K L
Name Manager ? ×						? ×
	<u>N</u> ew <u>E</u> dit		Delete			<u>F</u> ilter ▼
	Name	Value		Refers To	Scope	Comment
	🗐 feb	{"3","3	;"3","3";"3","3	='VM 02'!\$H\$31:\$!!	S Workbook	
1	💷 jan	{11,11)11,11)11,11,1	='VM 02'!\$C\$29:\$D	Workbook	
1					© Yo	da Learning Solutions

#0803: Data Validation - Numbers w. Error Alert and Input Message

1	Input Message	To display a message when a cell is selected
2	Error Alert	To display an alert if invalid data is entered in a cell

Sample Output



Procedure to activate "Input Message" & "Error Alert"

1 Data	Validation ? ×						
Settings Input Message Error Alert							
✓ Show error alert after invalid data is enter When user enters invalid data, show this error alert:							
Style:	<u>T</u> itle:						
Stop 🗸	Invalid Input						
	Error message:						
8	Please enter the score 0-100						
<u>C</u> lear All	© Yoda Learning Solutions OK Cancel						

#0804: Data Validation - Dates w. Error Alert and Circle Invalid Data

A cell with pre-defined data validation logic will accept only those user inputs as validated by the rule. E.g. values as per drop-down list.

However, one can mistakenly **supersede** these rule by copying an invalid data from a different cell and use **Paste Special (Value)** on top of the cell with data validation. This procedure allows the cell with data validation to accept the invalid data. So in order to highlight the cells with invalid values, we use "**Circle Invalid Data**"

FILE	HOME INSERT P	AGE LAYOUT FORM	JLAS DA	TA REA	riew view g e	EVELOPER
Get External Data ≁	Refresh All - Connections Connections	$\begin{array}{c c} A \downarrow & \hline A & A &$	Clear Reapply Advanced	Text to Columns	Flash Fill Flash Fill The move Duplicate Data Validation Data Validation	Consolidate S P What-If Analysi C Relationships
1	Score shou	ld be 0-100			Circle Invalid Da	ta Circles
2	Score				t	
3		12	D <	Circle	d input data is	s "invalid"
4		Please enter the score 7	6			
5		8	7			
6					© Yoda Le	arning Solutions

#0805: Data Validation – Whole number, Text Length, Date (MM/DD/YYYY)

Data Validation 📍 🗙						
Settings	Input Message	Error Alert				
Validation	criteria					
Allow: Any valu	ıe	✓ Ignore blank				
Any valu Whole r Decimal	ie number					
List Date Time Text leng Custom	gth					
Apply these changes to all other cells with the same settings © Yoda Learning Solutions						
<u>C</u> lear All		OK Cancel				

#0806: Data Validation - Custom w. formula logic

The CUSTOM logic should be famed to yield LOGICAL (True/False) result.

	Da	ata Validat	ion
Settings	Input Message	Error Alert	
Validation	criteria		
<u>A</u> llow:			
Custom		🗸 🗹 Igno	ore <u>b</u> lank
Data:			
betwee	n	\sim	
<u>F</u> ormula:		,	
=LEN(A	1)=3		1



#0904: Cell Gridlines: Turning On/Off

	PAGE LAYOUT	FORMULAS	DAT	A F	REVIEW	VIEW	DE
	🗹 Ruler	🗹 Formula Bar	Q	 ,	Q		E
n	Cridlings	1 Landinan	Zoom	100%	Zoom to	New	Arra
:	Gridiines	- Headings			Selection	Window	A
	l si	how	9	Zoom	i .		
	View Gridlin 1 2	lines bet in the sho er to read	ween ro eet to m d.	ws and ake the			
	1	3					
	2	© Yoda Learning Solutions					

#0905: Hide/Unhide Rows and Columns


#0906: Freeze Panes (incl. both row & column simultaneously)

FIL	HOME INSER	T PAGE LAYOUT	FORMULAS	DATA		VIEW	DEVELO	OPER	
	i 🗍 🛄 İ	Ruler	🗹 Formula Bar	Q .	- a		H		Split CD View Side by Side
Norm	al Page Break Page Cu Preview Layout Vi	Zoom 1009	% Zoom to Selection	New Window	Arrange All	Freeze Panes *	Unhide BE Reset Window Position Windows		
	Workbook Views	9	Show	Zoo	om			600	Freeze Panes Mac
B4	• : ×	√ <i>f</i> x =85	5						Keep rows and columns visible while the rest of the worksheet scrolls (based on current selection).
4	A	В	С		D		E		Freeze Top Row Keep the top row visible while scrolling through the rest of the worksheet.
1								877	Freeze First <u>C</u> olumn
2									Keep the first column visible while scrolling through the rest of the worksheet.
3	Supplier Number	Supplier Name	ID .	Trans	action Am	nt. \$			
4	612156 1	ABC	65667		1,25	9.00			
5	612156	ABC	05667		3,20	0.00			
6	612156	ABC	65667		1,36	9.00			
7	612156	ABC	65667		4,53	5.00			
8	612156	ABC	65667		10,36	3.00			
9	612158	JDK	88767		1,71	1.00			
10	612158	JDK	88767		1.56	8.00			© Yoda Learning Solutions

Choose the cell the row above which and the column before which needs to be "frozen". In this case, Column A and Rows 1-3 will be frozen.

Pre-requisites:

- Blank/Empty "header" cells not allowed
- "Merged" cells not allowed

	Δ	B	👽 c	D						
1			×							
2	Re	gion	Market		Busine					
3	North America	United States	Southeast	Trusted Catalog Store	Bikes					
4	North Amer	United States	Southeast	Trusted Catalor e	Bikes					
5	Nort		Southeast	Truste	Bikes					
6	Nort Mer	ged Cells	Southeast	Truste Blank "Header" cells	Clothir					
7	Nort		Southeast	Truste	Bikes					
8	North America	United States	Southeast	Trusted Catalog Store	Bikes					
9	North America	United States	Southeast	Trusted Catalog Store	Bikes					
10	North America	United States	Southeast	Trusted Catalog Store	Bikes					
11	North America	United States	Southeast	Trusted Catalog Store	Bikes					
12	North America	United States	Southeast	Sports Sales and Rental	Bikes					
13	North America	United States	Southeast	Sports Sales and Rental	Bikes					
14	North America	United States	Southeast	Sports Sales and Rental © Yoda Learn	ing Sol Gomps					

Creating a Pivot Table

Choose the data table. INSERT > PIVOT TABLE



Changing an essential Setting:





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#1004: Pivot Tables - Exploring Pivot Table grid (Fields)



#1005: Pivot Tables – Value Field Settings for Sum, Average

	Α	В	С	D	E	F	G
1	[Drop Report	Filter Fields I	Here	CYO	da Learning Soli	utions
2							
3	Sum of Sales Amount	Years 💌					
4	SalesDate 💌	2002	2003	2004	Grand Total		
5	Jan	713,230	1,318,597	1,670,606	3,702,433		
6	Feb	1,682,318	2,166,151	2,580,937	6,429,407		
7	Mar	1,673,760	1 70/ 001	2 970 072	6 228 064		
8	Apr	872,56		Value Fi	ield Settings	?	×
9	May	2,280,16	Source Name:	Sales Amount	1		
10	Jun	1,102,02	Custom Man	Course of Calas As			
11	Jul	2,446,79		Sum of Sales Al	nount		
12	Aug	3,615,92	Summarize Val	ues By Show	Values As		
13	Sep	2,826,44	Summarize va	lue field by			
14	Oct	1,872,40	Choose the TV	e or calculation	that you want t	to use to summa	rize
15	Nov	2,939,78	data from the	selected field			
16	Dec	2,303,43	Sum		^		
17	Grand Total	24,328,84	Count				
18			Max				
19			Min Product		~		
20							
21							
22			Number Forma	it	OK	Canc	el
23		L					

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#1006-1007: Pivot Tables – Value Field Settings for % calculations

	Α	В	С	D	E	F G 🔄 © Yoda Learning Solutions
1	[Drop Report	Filter Fields I	Here		PivotTable Fields
2						Value Field Settings ? ×
3	Sum of Sales Amount	Years 💌]			Course Name Calas Among
4	SalesDate 💌	2002	2003	2004	Grand Total	Source Name: Sales Amount
5	Jan 🦯	713,230	1,318,597	1,670,603	3,702,433	<u>C</u> ustom Name: Sum of Sales Amount
6	Feb	1,682,318	2,166,151	2 2 937	6,429,407	Summarize Values By Show Values As
7	Mar 🙂	1,673,760	1,784,231	2,,073	6,328,064	
8	Apr	872,568	1,829,387	2,168,448	4,870,403	Show values as
9	Мау	2,280,165	2,921,701	3,380,604	8,582,470	No Calculation
10	Jun	1,102,021	1,932,251	1,536,545	4,570,817	No Calculation
11	Jul	2,446,798	2,788,963	2,381,202	7,616,962	% of Column Total
12	Aug	3,615,926	4,314,542	1,540,073	9,470,541	% of Row Total % Of
13	Sep	2,826,440	3,980,290	1,136,989	7,943,719	% of Parent Row Total
14	Oct	1,872,402	2,469,944	874,178	5,216,523	SalesDate Y
15	Nov	2,939,785	3,327,910	2,268,711	8,536,406	
16	Dec	2,303,436	3,683,548	1,760,483	7,747,467	Number Format OK Cancel
17	Grand Total	24,328,849	32,517,515	24,168,848	81,015,212	
18	2	1		4		

Calculation	Meaning
1/4	% of Grand Total
1/2	% of Column Total
1/3	% of Row Total

#1008 - 1009: Pivot Tables - Grouping Dates & Numbers (automatic)



	A	В	С	D	E	F	-	
1	Di	rop Repo	ort Filter F	ields He	re			PivotTable Fields 🔹
2								Channe fielde te add te annet
3		Years 🔻			-			Choose fields to add to report:
4	SalesDate 🔻	2002	2003	2004	Granu rotai			Region
5	Jan							SubRegion
6	Feb							Market
7	Mar							Customer
8	Apr							Business Segment
9	May							Category
10	Jun							Model
11	Jul	Drop	value	e Field	Is Here			
12	Aug							✓ SalesDate
13	Sep							
14	Oct							Drag fields between areas below:
15	Nov							T FILTERS
16	Dec							Vearc
17	Grand Total							i i i i i i i i i i i i i i i i i i i
18								
19								\equiv ROWS Σ VALUES
20								SalesDate
21								Juicabule
22								© Yoda Learning Solutions

	Α	В	С	D	E	F	(G H	I J K L
1	Dro	p Repo	rt Filter	Fields I	Here				© Yoda Learning Solutions
2									
3	Count of Name	Age 🔻							
4	Salary p.a. (US\$) 🔻	19-28	29-38	39-48	49-58	Grand Total			
5	1-100000	65	65	32	4	166			
6	100001-200000	25	34	9	5	73		Groupin	~ ? ×
7	200001-300000	18	15	15	2	50		Groupin	g ·
8	300001-400000	20	21	11		52		Auto	
9	400001-500000	_ 11	9	5	1	26		Starting at:	1
10	500001-600000	4	7	2	2	15		Ending at:	990976
11	600001-700000	7	4	3		14		By:	100000
12	700001-800000	4	5	1		10		<u>.</u>	
13	800001-900000	4	3			7		ОК	Cancel
14	900001-1000000	1	1	2		4			
15	Grand Total	159	164	80	14	417			
16									

#1010: Pivot Tables – Grouping Text (manual)



#1011: Pivot Table - Refresh vs. Refresh All, Change Data Source

X] □ ゔ・ ♂੶	12 ÉB - ZB -	#16 -	1(017 - 1018.xlsx - N	Aicrosoft	Excel		PIVOTTABL	E TOOLS		
F	FILE HOME IN	SERT PAGE L	AYOUT FO	ORMULAS	DATA REVI	w v	/IEW	DEVELOPER	ANALYZE	DESIGN		
Pive	Active Field: Sum of Sales Ar	nc Drill Down Up ~	+ + ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	up Selection group up Field	Insert Slicer	ne ctions	Refresh C	Change Data Source •	Actions	lds, Items, & Sets × AP Tools × l ate Source		
	Ac	tive Field		Group	Filter		<u>R</u> efi	resh		carcalacions		
A	3 - :	$\times \checkmark f_x$	Sum of Sa	um of Sales Amount				Refresh <u>A</u> II				
	А	В	С	D	E	F	Ref	Refresh All	(Ctrl+Alt+F5)			
1		Drop Report	Filter Fields	Here			EX Col	Get the lates	tGlatabla refrash	iingsastolutions		
2							C <u>o</u>	sources in th	ie workbook.			
3	Sum of Sales Amour	it Years 🛛 💌]									
4	SalesDate	~ 2002	2003	2004	Grand Total							
5	Jan	713,230	1,318,597	1,670,606	3,702,433							
6	Feb	1,682,318	2,166,151	2,580,937	6,429,407							
7	Mar	1 673 760	1 78/1 221	2 820 023	6 328 064							

#1012: Pivot Table - Auto Refresh

PivotTable Options PivotTable Options ? ×
PivotTable <u>N</u> ame: PivotTable1
Layout & Format Totals & Filters Display Printing Data Alt Text
PivotTable Data ✓ <u>S</u> ave source data with file
✓ Enable show details
Refresh data when opening the file
Retain items deleted from the data source
Number of items to retain per field: Automatic
What-If Analysis
Enable cell editing in the values area

#1013: Pivot Table - Pivot Chart Shortcut (F11) and Sparklines

FILE	HOME	INSERT PAG	E LAYOUT FORM	UULAS DATA	REVIEW V	IEW DEVELOPE	R (+		+
Ş	2		Shap	bes T	$\overline{2}$			<u>~ µlı.</u>	ļ
PivotTa	ble Recommen	ded Table Picto	Pictures Scre	enshot v Office v	Charts	* 3 • 10 •	Pivotenar L	ine Column	Win/
	Tables	6	Illustrations	Apps	Charts	Charts	G.	Snarkline	LOSS
A4	• :	× v f	ĸ				~	Sparkine	s
	А	В	С	D	E	F	G	Н	I
1	Q1	Q2	Q3	Q4					
2	10	50	30	45	\sim				
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#	10	50	30	45		←			
5				Create Sparkline	es ?	×			
6			Choose the data	that you want		 i			
7-			<u>D</u> ata Range:	A4:D4		1			
8			Choose where y	ou want the sparkline	s to be placed	- Li			
9	9 Location Range: SES4								
10				ОК	Cancel				
11							© Yo	oda Learning Solu	utions

#1014: Pivot Table - Drill Down option

Double-click on ANY value in the "Value Fields" area where all numbers are displayed to drill-down deeper in the details of the number clicked upon.

1	A	В		Α	В	C	D	E	F
1	Drop Report Filter Fiel	ds Here	1	DoJ 💌	Name 💌	Salary p.a. (US\$) 🔽	Division 💌	Rating 💌	Age 🔽
2			2	4/5/1997	AbduSalaam, Ismael	38261	HFD	3	31
3	Count of Name		3	1/6/1999	Young, Karen	294272	HFD	1	37
4	Division	Total	4	10/8/2003	Adams, Jennifer M	24566	HFD	1	23
5		41	5	6/6/1998	Yorkey, Alicia	507983	HFD	4	29
6	CDED	19	6	6/10/1996	Adams, Vanessa Y.	38038	HFD	1	39
7	ED	17	7	10/13/1997	Wyckoff, Sandiskie G.	39337	HFD	3	30
1		112	8	6/3/2004	Wright, Patricia L.	205976	HFD	3	27
8	HFD	112	9	3/6/2004	Woods, Bonnie H.	384178	HFD	1	43
9	LGAD	13	10	9/30/1999	Wilson, Vanessa	270844	HFD	3	38
10	PEMD	32	11	7/31/2002	Williams, Andria A.	228421	HFD	1	25
11	RAD	148	12	9/15/2005	Williams, Alma	82503	HFD	3	28
12	RDD	6	13	11/13/2012	Welsh, Sandy	63936	HFD	2	19
13	Grand Total	417	14	11/28/1996	Weaver, Delores	50045	HFD	5	53
Shee	t2 Sheet1 01 Staff	details	s	neet2 Sheet1	01 Staff details				

#1015: Pivot Table - Report Filter - Generating 100s of reports in few seconds

	2≣ - 846 -	1017 - 10)18.xlsx - Micros	oft Excel	P	VOTTABLE TOOLS	团 – □ X
FILE HOME INSERT F	PAGE LAYOUT FORMU		DEVIEW	1/1FW	EVELOPER AN	ALYZE DESIGN	Sign in 🔍
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PivotTable Name:	fx 2280165.0248						~
PivotTable2							
🔄 Options 🔽 📥 📥 🛶 🛶		E	F	G	H A	DivetTable Field	X
Options	SubRegion	(All) 🔽				Pivol Table Field	is in
Show Report Filter Pages	Come of Color Amount	Maara				Choose fields to add to rep	ort: 🚯 🔻
✓ <u>Generate GetPivotData</u>	Sum of Sales Amount	rears 💌	2002	2004	Grand Total		
5	lan	713,230	1.318.597	1.670.606	3,702,433	Region	<u> </u>
6	Feb	1.682.318	2.166.151	2,580,937	6,429,407	✓ Subregion	
7	Mar	1,673,760	1,784,231	2,870,073	6,328,064		
8	Apr	872,568	1,829,387	2,168,448	4,870,403	Business Segment	
9	May	2,280,165	2,921,701	3,380,604	8,582,470	Category	
10	Jun	1,102,021	1,932,251	1,536,545	4,570,817	Model	
11	Jul	2,446,798	2,788,963	2,381,202	7,616,962		
12	Aug	3,615,926	4,314,542	1,540,073	9,470,541	✓ SalesDate	•
13	Sep	2,826,440	3,980,290	1,136,989	7,943,719	Drag fields hetween press	halaur
14	Oct	1,872,402	2,469,944	874,178	5,216,523	Drag fields between areas	Delow:
15	Nov	2,939,785	3,327,910	2,268,711	8,536,406	T FILTERS	COLUMNS
16	Dec	2,303,436	3,683,548	1,760,483	7,747,467	SubRegion 👻 🛛 Y	ears 🔻
1/	Grand Total	24,328,849	32,517,515	24,168,848	81,015,212		
10							
20						TROWS Σ	VALUES
21						SalesDate 🔻 S	um of Sales A 🔻
22							
23							
► Australia	Canada I	France	Germany	/ Uni	ted Kingdom	United States	; ;

#1016: Pivot Table - Slicer vs. Report Filter

Slicers are easy-to-use filtering components that contain a set of buttons that enable you to quickly filter (single / multiple) the data in a PivotTable report, without the need to open drop-down lists to find the items that you want to filter.

X		5 · 👌 👔		- #16 -							E TOOLS	
F	ILE	HOME INSE	ERT PAGE	LAYOUT FO	ORMULAS	DATA REVI	EW	VIEW	DEVELOPER	ANALY	/ZE	DESIGN
Pivo	tTable	Active Field: Sum of Sales Amo Field Settings Activ	Drill Drill Down Up -	+ ∰ ØB Ung	up Selection Iroup up Field Group	Insert Slicer □ Insert Timel Insert Timel Insert Timel Insert Timel Insert Timel Insert Slicer	ine ections	Refresh	Change Data Source → Data	Actions	ijk Fie īj _t OL ¤⊟Rel	ds, Items, & S AP Tools ~ ationships Calculations
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		А	В	с	D	E		F	G	н		L
1	SubRe	egion	(All)	·						~	1	
2								Marke	et	™		
3	Sum o	of Sales Amount	Years 🗖	•				Aust	ralia	^		
4	Sales	Date 🝷	2002	2003	2004	Grand Total		Cana	da			
5	Jan		713,230	1,318,597	1,670,606	3,702,433		Cana	ua			
6	Feb		1,682,318	2,166,151	2,580,937	6,429,407		Cent	ral			
7	Mar		1,673,760	1,784,231	2,870,073	6,328,064		Fran	ce			
8	Apr		872,568	1,829,387	2,168,448	4,870,403						
9	May		2,280,165	2,921,701	3,380,604	8,582,470		Gern	nany			
10	Jun		1,102,021	1,932,251	1,536,545	4,570,817		Nort	heast			
11	Jul		2,446,798	2,788,963	2,381,202	7,616,962		Nort	hwast			
12	Aug		3,615,926	4,314,542	1,540,073	9,470,541		Nort	nwest			
13	Sep		2,826,440	3,980,290	1,136,989	7,943,719		Sout	heast	~		
14	Oct		1,872,402	2,469,944	874,178	5,216,523						
15	Nov		2,939,785	3,327,910	2,268,711	8,536,406						
16	Dec		2,303,436	3,683,548	1,760,483	7,747,467						
17	Grand	d Total	24,328,849	32,517,515	24,168,848	81,015,212) Yoda	Learnin	g Solutions			

NB - For generating a quick Chart based on Pivot Table report: Select entire Pivot Table report, then Press **<F11>** for generating default chart

#1017-1019: Pivot Table – Practice Exercises

Refer practice workbooks

Overview of Lookup formulas



#1101: VLOOKUP() for Starters



- "lookup_value" should be in the same format as the one stored in the first column of the selected "table_array"
 - Detection techniques: ISNUMBER(), ISTEXT(), LEN()
 - Correction techniques for nos. stored as text VALUE(), Text-to-Columns (Step 3/3) General
 - Right-Click > Format Cells is NA unless <F2 and Enter> on individual cells

#1102 VLOOKUP w. TRUE vs. FALSE & applications of TRUE

3 conditions (as applicable for Dates & Number):

- SLABS
- >=
- Ascending Order

Better substitute for complex Nested IFs in significant number of cases. Examples:



#1104: HLOOKUP() vs. VLOOKUP()



HLOOKUP(lookup_value, table_array, row_index_num, [range_lookup])



[MATCH helps count the **position number** (1st, 2nd, 3rd...) in a **one-dimensional data range**]

MATCH() with 1	MATCH() with -1		
 Slab with values in ascending order Greater than equal to (>=) 	 Slab with values in descending order Less than equal to (<=) 		

#1107 – 1111: 2-D Lookup (Vertical + Horizontal) - VLOOKUP w. MATCH



VI	.0	OK	(U	P()
		1			

captures the entire table_array and hence, referred as the SENIOR

 Emp ID	Name	Gender	Age
9780960142	Price, Susan	F	25
9831012345	Swann, Trina	F	57
9821181333	Hobbs, Patsy	М	21
9830021207	McCook, Sherri E.	М	22

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MATCH() captures only the *header* or the *lookup_array* and hence, referred as the **JUNIOR**. It will count the col_index_number for VLOOKUP

VLookup + Match is used in dataset with 2-variables as placed in the given format. The two defines the answer which is placed inside the table.



#1112: 2-D Lookup (Horizontal + Vertical) - HLOOKUP w. MATCH



HLOOKUP()

Emp ID	9780960142	9831012345	9821181333	9830021207
Name	Price, Susan	Swann, Trina	Hobbs, Patsy	McCook, Sherri E.
Gender	F	F	м	Μ
Age	25	57	21	22

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MATCH()





Note:

- Use INDIRECT when you want to change the reference to a cell within a formula without changing the formula itself.
- Named Cell/Range can be used as an input for INDIRECT
- Often used to create 3D Lookup formulas along with VLookup + Match
- INDIRECT() is used for references within the SAME workbook. Cross-linking different workbook is best avoided as it works only when all relevant workbooks are open - Yields a #REF! error if not done so.

Example:

	А	В	С	
10				
11	JAN	FEB	MAR	
12	1	3	5	
13	2	4	6	
14		_		
15	FEB	=SUM(IND	IRECT(A15)))
16				

#1115 - 1116: 3-D Lookup - VLOOKUP() w. MATCH() w. INDIRECT()

=VLOOKUP(F5,INDIRECT(D5),MATCH(C5,INDIRECT(E5),0),0)



Important Note: Using =INDIRECT() with Naming for 3-D Lookup. E.g. APAC (Sr.) and APACH (Jr.)

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#1117 - 1119: 3 Reverse Lookup - INDEX() w. MATCH()

IMM vs VM: Both VM and IMM approaches are useful for pulling data from any 2x2 data matrix. However, IMM is useful for reverse Lookup. Unlike VM, IMM doesn't require the common link values to be in the left-most column of the database.



#1120 - 1121: SUMIFS(): Conditional Summation

		Name	Gender	Age	Stipend	
C 1 1		Price, Susan	F	25	\$ 10,000	
= 50	IVIIFS()	Swann, Trina	F	57	\$ 12,000	
		Hobbs, Patsy	М	21	\$ 8,000	✓
		McCook, Sherri E.	М	22	\$ 20,000	✓
	SUMIFS Sum_range	Function Arguments				
Pair #1	Criteria1				→ "M"	,
Pair #2	Criteria_range2	122				
	Criteria2				·→ ">=21	L″
	Adds the cells specified by a gi Criteria	= iven set of conditions or criteria. [range2: is the range of cells you © Yoda Learning	d ition. g Solutions	© Yod	a Learning Solutior	าร

Solution: 28,000

Note:

- (1) Use <F4> to lock Criteria_range & Sum_range
- (2) Maintain SAME HEIGHT of RANGES
- (3) SUMIFS can accept multiple criteria (127 !) whereas SUMIF can accept only one

#1122: SUMIFS(): Conditional Summation (3 criteria) w. date range

If cell A1 contains "21-May-2001", then the *Criteria_1* can be <u>">="&A1</u> indicating date 21-May-2001 onwards. The operators (> < = etc.) has to be enclosed in a pair of double-quotes and concatenated (&) with the cell reference containing valid date(s).

#1123: SUMIFS(): Condition based Selective Cumulative Running Total



Careful use of relative references (\$) can help yield differential cumulative running total

#1124: COUNTIFS() - Single/Multiple Criteria: Duplicate Count, Instance No.

		Name	Gender	Age	Sti	pend	
		Price, Susan	F	25	\$	10,000	
=000	INTIF5()	Swann, Trina	F	57	\$	12,000	
		Hobbs, Patsy	М	21	\$	8,000	✓
		McCook, Sherri E.	М	22	\$	20,000	✓
	COUNTIFS	Function Arguments		×			
	COUNTIFS						
Pair #1	Criteria_range1					(INA)	,
Dete #2	Criteria range2	(17)	<u> </u>				
Pair #2	Criteria2					→ ">=21	L″
c	ounts the number of cells specif	= ied by a given set of conditions or cr					
	Criteria_ra	nge2: is the range of cells you wan	ondition.	Looming	Colutions		
_			© roda	Learning S	solutions		

- Solution: 2
- Used for 2-way list-reconciliation, duplicate count E.g. =COUNTIFS(\$A\$1:\$A\$100,A1)
- Used for Instance No./Occurrence No. =COUNTIFS(<u>\$A\$1</u>:A1,A1)

#1201 – 1206: Text Formulas – UPPER(), PROPER() & LOWER(); TRIM(), VALUE(), T(), N(), REPT()



#1207: Joining data strings using CONCATENATE, &



Note:

- Both of the above approaches yield the SAME output
- Any external text, number, symbol must be enclosed in a pair of double quotations. E.g. " "
- = TEXT() may be used if combining Dates. E.g. ="Today's date is " & TEXT(A2, "dd-mmm-yy")

#1208 – 1209: Find & Replace – Basics
Currin
Find and Replace ? X
Find Replace
Replace with:
Op <u>t</u> ions >>
Replace <u>A</u> II <u>Replace</u> Find All Find Next Close
Find and Replace ? ×
© Yoda Learning Solutions
Fi <u>n</u> d what:
Replace with: No Format Set Format
Sheet Options < Workbook Look in:
Replace <u>All</u> <u>Replace</u> Find All Find N xt Close
make the search
Case Sensitive
a search of "apple" will
pick up only "apple" and
not "apple pie"

#1208 – 1209: Find & Replace – Using Wildcard characters (* ?)

*

Asterisk (*): Any number of characters

Email		
Ismael Abdusalaam/IN/TRS/PwD@ASIAPAC-IN	© Yoda L	earning Solution
Jeff Abney/IN/Adv/PwD@LATAM-IN	Find and Replace	? ×
Iennifer Adams/IN/M&C/PwD@AMERICAS-IN	Find Replace	
Cindy Alligood/IN/M&C/PwD@LATAM-IN	Find what: (*)	~
Darryl Andrews/IN/FAS/PwD@AMERICAS-IN	Replace with:	~
Maryalice Applegate/IN/TRS/PwD@EMEA-IN		Options >>
Lynn Ashcraft/IN/M&C/PwD@AMERICAS-IN Ross Avina/IN/M&C/PwD@AMERICAS-IN	Replace All Replace Find All Find Next	Close
Jacalyn Baker/IN/TRS/PwD@EMEA-IN		



Email Ismael Abdusalaam Jeff Abney Jennifer Adams Cindy Alligood Darryl Andrews Maryalice Applegate Lynn Ashcraft Ross Avina Jacalyn Baker

#1208 - 1209: Find & Replace - Using Wildcard characters (* ?)

?

Question (?): Any one character (single)

Email		
Ismael Abdusalaam/IN/TRS/PwD@ASIAPAC-IN Jeff Abney/IN/Adv/PwD@LATAM-IN	Find and Replace	oda Learning Soluti
Jennifer Adams/IN/M&C/PwD@AMERICAS-IN Cindy Alligood/IN/M&C/PwD@LATAM-IN	Find Reglace /???/ Find what: /???/ Replace with: //???/	v v
Maryalice Applegate/IN/TRS/PwD@EMEA-IN		Op <u>t</u> ions >>
Lynn Ashcratt/IN/M&C/PwD@AMERICAS-IN Ross Avina/IN/M&C/PwD@AMERICAS-IN	Replace All Replace Find All Fin	nd Next Close
Jacalyn Baker/IN/TRS/PwD@EMEA-IN		

Email
Ismael Abdusalaam/IN/XXX/PwD@ASIAPAC-IN Jeff Abney/IN/XXX/PwD@LATAM-IN Jennifer Adams/IN/XXX/PwD@AMERICAS-IN Cindy Alligood/IN/XXX/PwD@LATAM-IN Darryl Andrews/IN/XXX/PwD@AMERICAS-IN Maryalice Applegate/IN/XXX/PwD@AMERICAS-IN Lynn Ashcraft/IN/XXX/PwD@AMERICAS-IN
Jacalyn Baker/IN/XXX/PwD@EMEA-IN

#1210: Find & Replace - Neutralising Wildcard characters to remove them from data

Important: Wildcard characters can be neutralized by pre-fixing tilde sign (~) which is placed above the TAB key:

Ismael Abdusalaam	
Jeff Abney*******	Find and Replace ? ×
Jennife**r Adams	Find Replace © Yoda Learning Solutions
Cindy Alligood	Find what:
Darryl *******Andrews	Replace with:
Maryalice Applegate	Op <u>t</u> ions >>
Lynn ****Ashcraft	Peoloce All Peoloce Find All Find Next Close
Ross Avina	Kehlace Zui Vehlace Lilla Au Lilla Au
******Jacalyn Baker	

#1211: Find & Replace – Word vs. Excel

	Find and Replace	? ×		
Fin <u>d</u> Re <u>p</u> lace <u>G</u> o To				
Find what:		~		
Replace with:		v	E	eragraph Mark
			1	Tab Character
More >>	Replace Replace All	Find Next Cancel	1	Any <u>C</u> haracter
			1	Any Digit
			1	Any Letter
				Ca <u>r</u> et Character
	Find and Replace	? ×	5	Section Character
Find Replace Go To		© Yoda Learning Solutions	1	Paragraph Character
Find what:		×	(Col <u>u</u> mn Break
			E	E <u>m</u> Dash
Replace with:		~	E	E <u>n</u> Dash
				ndnote Mark
<< Less	Replace Replace All	Find Next Cancel	F	Fiel <u>d</u>
Search Options			E	ootnote Mark
Search <u>:</u> All 🗸	_		(Graph <u>i</u> c
Match case Find whole words only		Match prefi <u>x</u> Ma <u>t</u> ch suffix		Manual <u>L</u> ine Break
Use wildcards	_		1	Manual Page Brea <u>k</u>
Find all word forms (English)		Ignore punctuation characters Ignore <u>w</u> hite-space characters	1	Nonbreaking <u>H</u> yphen
			1	Nonbreaking <u>S</u> pace
Papiaca			(Optional Hyphen
Format T Special T	Fernetting		5	Section <u>B</u> reak
-Trues				<u>W</u> hite Space

#1212: Find & Replace – Cell Format

Find and Replace ? ×
© Yoda Learning Solutions Find Replace
Find what: No Format Set Format • Replace with: No Format Set Format •
Within: Sheet Match case Search: By Rows Match entire cell contents Look in: Formulas Options <<
Replace <u>All</u> <u>Replace</u> Find All <u>Find Next</u> Close

• FIND WHAT: Specify the **source** format

REPLACE WITH: Specify the target format

#1213-1214: Text to Columns – Delimited vs. Fixed Width



	Voda Learning Solutions A		В	[Delimited]
1	Separate Name from Surname			[Delinited]
2				
3	Surname, Name	Su	ırname	Name
4	AbduSalaam, Ismael			
5	Abney, Jeffery			
6	Adams, Jennifer M			
7	Adams, Sally			
8	Adams, Vanessa Y.			
	© Voda Learning Solutions A	В	С	
1				[Fixed Width]
2	Transfer 1 column data into 4 columns			
3				
4	Fixed Assets (excerpts)	Account N	o. Item No.	Item No. Check Asset Desc.
6	25900 816400 00816400 WIRE HOLDER 3 PIN			
7	25900 816401 00816401 WIRE HOLDER 5 PIN			
8	25900 816460 00816460 MOULD FOR WORD MARK			
9	25900 816410 00816410 MOULD FOR CONTROL K			

#1214: Text to Columns – Tricks

Trick 1: Ensuring a pre-defined format for exported data @ Step 3 of 3. Applications:

- Numbers stored as text to "General" format refer VLookup discussion
- Dates cleaning
- Retaining prefix zeroes in cases of Credit Card & bank Account nos., ID Codes

	Prefix zeroes must be retained	© Yoda Lea	arning Solutions
3 4 5 6 7 8 9	Fixed Assets (exc. rpts) 25900 814392 00814392 MOULD REPRG CHARGES 25900 816400 00816400 WIRE HOLDER 3 PIN 25900 816401 00816401 WIRE HOLDER 5 PIN 25900 816460 00816460 MOULD FOR WORD MARK 25900 816410 00816410 MOULD FOR CONTROL K	Account No. It This screen lets you select each column and set the Data Format. Column data format General Tris screen lets you select each column and set the Data Format. Column data format General Tris screen lets you select each column and set the Data Format. General Tris screen lets you select each column and set the Data Format. General Tris screen lets you select each column and set the Data Format. General Tris screen lets you select each column and set the Data Format. General Tris screen lets you select each column and set the Data Format. General Tris screen lets you select each column and set the Data Format. General Tris screen lets you select each column and set the Data Format. General Tris screen lets you select each column and set the Data Format. General Tris screen lets you select each column and set the Data Format. General Tris screen lets you select each column and set the Data Format. General Tris screen lets you select each column and set the Data Format. General Tris screen lets you select each column and set the Data Format. General Tris screen lets you select each column and set the Data Format. General Tris screen lets you select each column (skip)	3 ? ×
10 11 12 13 14 15 16 17 18 19 20	25900 816430 00816430 MOULD FOR FRONT COV 25900 816440 00816440 MOULD FOR BACK COVE 25900 816470 00816470 MOULD FOR BACK COVE 25900 816480 00816480 MOULD FOR FRONT CAB 25900 816490 00816490 MOULD FOR BACK CABI 25900 816500 00816500 MOULD FOR TOP COVER 25900 816500 00816500 MOULD FOR SIDE AV BKT 25900 816520 00816520 MOULD FOR SIDE AV BKT 25900 816520 00816520 MOULD FOR SIDE AV BKT 25900 816640 00816640 FAN MOUNTING BKT 25900 466505 00464606 BEAB CABINET	Destination: =SBSS Data preview Cener Ceneral Text eneral 25900 814392 25900 816400 00816400 25900 816401 00816401 WIRE HOLDER 3 PIN 25900 816401 00816401 WIRE HOLDER 5 PIN 25900 816400 00816401 WOULD FOR WORD MARK 25900 816410 00816410 WOULD FOR CONTROL K < Cancel < Back Next >	Finish

For keeping intact a number string with Zeroes at the beginning (prefix): In Step 3 of 3, select the relevant "Column" under "Data preview" section → Column will blacken out → Choose "Text" radio button to store the output column in text form

#1215 - 1216: Text to Columns - Cleaning up numbers w. trailing minus sign; replacing Dr/Cr w. +/-



Text-to-Columns is also used to rectify Numbers with trailing negative (-) signs. E.g. From 212- to -212

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#1217 – 1218: Text to Columns – Correcting invalid Dates

	Α	В	С		Convert Text	to Columns V	Vizard - Step 3 of 3	×
1 2	Correcting dates in [TEXT-TO-COLUMNS]	invalid formats		This screen lets y Column data fo	you select each colu ormat	ımn and set the D	ata Format.	
3 4	Case 1:			○ <u>G</u> eneral ○ Text		'General' converts numeric values to numbers, date to dates, and a remaining values to text.		ate values
5 6	Invalid Date Input	Final Output		Date: MI Do not MI	DY V DY ^ io)		<u>A</u> dvanced	
7 8	24.05.2007 04.08.2007	24-May-07 4-Aug-07	Г	Destination: MY	ID //D			1
9 10	09.05.2008 26.06.2008	9-May-08 26-Jun-08		YD Data <u>p</u> review	M Y			
11 12	27.07.2008	27-Jul-08 24-Nov-08		MDY				
13	28.11.2008	28-Nov-08		24.05.2007 04.08.2007 09.05.2008	←			î
15				26.06.2008 27.07.2008				~
22 23				<	_			>
30 31		C) Yoda Learni	ng Solutions		Cancel	< <u>B</u> ack Next >	Finish

- For Correcting Dates Apply "Confession Box". Choose the mistake or the current sequence of date components
- E.g. "DMY" 29.10.2009 and "YMD" for 20091031

#1219-1221: LEFT(), RIGHT(), MID()





#1219-1221: SEARCH() vs. FIND()

Yield the starting position of the cr =SEARCH(SEARCH(find_text, within_text, [start])	-iteria Case Can us	Sensitiv e wild	ve? – No characters in search terms? - Yes	
FIND(find_text, within_text, [start	Case Can us	Sensitiv e wild	ve? – Yes characters in search terms? - No	
A	E	;	C	
1 user@ <mark>yo</mark> dalea	arning.com	6	=SEARCH("YO*",A1)	
2 123456	21			

#1301: Logical formulas - generally used with IF()
=ISBLANK Checks whether a reference is to an empty cell, and returns TRUE or FALSE
ESNUMBER Checks whether a value is a number, and returns TRUE or FALSE [Used to check the validity of dates as technically every valid date in Excel is a "number"]
EISTEXT Checks whether a value is text, and returns TRUE or FALSE
=ISERROR Checks whether a value is an error (#N/A, #VALUE!, #REF!, #DIV/0!, #NUM!, #NAME?, or #NULL!), and returns TRUE or FALSE
=ISFORMULA ©ISFORMULA

Others: ISNA(), ISREF(), ISERR()

#1302-1304: Logical formulas - AND(), OR(), IF()


Examples:

	А	В	С	D	E © Yoda Learr	ning Solutions
8	Name	Salary p.a. (US\$)	Division	Rating	Rating 1-3 AND Division "CDFD" AND Salary < 50K	
9	AbduSalaam, Ismael	38,261	HFD	3	=AND(D9<4, <mark>C9</mark> ="CDFD",	B9<50000)
426					AND(logical1, [logical2], [logical3], [log	ical4],)

[FALSE because Division is not equal to "CDFD"]

	А	В	С	D	F [©] Yoda Learning Solutions
8	Name	Salary p.a. (US\$)	Division	Rating	Rating 1-3 AND Division "CDFD" AND Salary < 50K
9	AbduSalaam, Ismael	38,261	HFD	3	=OR(D9<4,C9="CDFD",B9<50000)
426					OR(logical1, [logical2], [logical3], [logical4],)

[TRUE because at least one of three conditions is TRUE]

	A	A B C		D	F	G	Yoda Learni H	ng Solutions I
8	Name	Salary p.a. (US\$)	Division	Rating	Rating 1-3 AND Division "CDFD" AND Salary < 50K			
9	AbduSalaam, Ismael	38,261	HFD	3	=IF(OR(D9<4,C9="CDF[D",B9<5000	0 <mark>)</mark> ,"Bonus","	No Bonus")

[Bonus]

=IFERROR(IFERROR(value, value_if_error)	 =IFERROR(<u>VLOOKUP()</u>, <u>"Data Not Available"</u>) =IFERROR(<u>VLOOKUP()</u>, IFERROR(<u>VLOOKUP()</u>, <u>"Data Not Available"</u>)) =IFERROR(<u>VLOOKUP()</u>, <u>VLOOKUP()</u>)
 Prior to v. 2007 i.e. before =IF(ISERROR(<u>VLOOKUP()</u>) instead of =IFERROR(<u>VLOOKUP()</u>, <u>"D</u> 	IFERROR() was introduced, users used , <u>VLOOKUP()</u> , <u>"Data Not Available"</u>) <u>ata Not Available"</u>)



- Not equal is referred by <>
 - Answer = FALSE

#1401-1403: Conditional Formatting



Manage Rules

	Conditional Forma	tting Rules Manager
<u>Show formatting rules for:</u>	Current Selection	© Toda Learning Solutions
🔚 New Rule 🔣 E	Current Selection	
Rule (applied in order show	Sheet: Case Study Intro Sheet: Exercise Sheet 1	Applies to
Formula: =AND(\$A7=\$	Sheet: Sheet11 B ABDCCYYZZ	=SBS7:SES16

#1403: Conditional Formatting: Data Bars, Color Scales, Icon Sets



#1404: Conditional Formatting: Blanks, Errors, Values, Duplicates

Most commonly used "Rule":

New Formatting Rule	?	×							
Select a Rule Type: ► Format all cells based on their values ► Format only cells that contain									
 Format only top or bottom ranked values Format only values that are above or below average Format only unique or duplicate values Use a formula to determine which cells to format 									
Edit the Rule Description:									
Specific Text Dates Occurring Blanks No Blanks Errors No Fromst									
OK	Can	cel							

#1405-1407: Conditional Formatting: Formula based

	А	В	С	D	I	E	F	G	H © Yoda	Learning Solutions						
1	MIS Report															
2								Edit Fo	rmatting Rule	? ×						
3	Division Name	RAD														
4			-		Select a Rule Type:											
5					► Format all cells based on their values											
6					► Format only cells that contain											
7	Name	Salary p.a. (USS)	Division	Rating	 Format only top or bottom ranked values Format only values that are above or below average Format only unique or duplicate values Use a formula to determine which cells to format 											
8	AbduSalaam, Ismael	38,261	HFD	3												
9	Abney, Jeffery	82,135	RAD	4												
10	Adams, Jennifer M	24,566	HFD	1												
11	Adams, Sally	15,097	CDFD	5												
12	Adams, Vanessa Y.	38,038	HFD	1		Edit the Rule Description:										
13	Alexander, Amy H.	72,682	RAD	3	j											
14	Allen, Rebecca	353,556	ED	5		F <u>o</u> rmat	values v	where this for	rmula is true:							
15	Allen, Sharon	55,089	RAD	2		1		t col		1						
16	Allen, William Brent	265,746	CDFD	1		(=56	\$33=	\$C8))							
17	Alligood, Cynthia	98,527	RDD	4												
18	Andrews, Darryl	20,337	CDFD	1												
19	Applegate, Mary Alice	18,158	CDFD	3		Preview		AaBb	oCcYyZz	<u>F</u> ormat						
20	Ashcraft, Lynn F.	67,602	RDD	3												
21	Avina III, Ross J.	161,229	CDFD	3					ОК	Cancel						
22	Baker, Jacalyn L.	58,614	HFD	3												
23	Ball, Ruth Ann	50,056	HFD	1												
24	Barber, Eva	121,317	RAD	3												
25	Barden, Nicky E.	932,149	RAD	2												
26	Barrett, Stephen	28,455	HFD	2												
27	Barrv. Sheila C.	32.449	HFD	5												

Important:

- Formula should yield TRUE or FALSE as an answer
- Relative references (\$). E.g. \$C8
- Formula in line with selection of data range. E.g. \$C8 because selection of data range starts from the 8th row

	А	В	С	D	E		F	G	м	N © Yoda	Carning Sc	Putions
1	Branch Name	Branch 6								· · ·		
2	Quarter	Q1 06							Edit For	matting Rule	?	×
3	-	243										
4	-						Select	a Rule Type:				
5	Branch Namo	01.05	02.05	02.05	04.05		Fo	rmat all cells	based on the	eir values		
7	Dranch 1	(270)	Q2 06	Q3 06	Q4 06		Fo	rmat only cel	lls that contai	in		
1	Branch 1	(378)	1/9	601	992		For	rmat only to	p or bottom r	ranked values		
8	Branch 2	(331)	252	383	770		For	rmat only val	lues that are	above or below av	/erage	
9	Branch 3	46	363	343	(713)		Fo	rmat only un	ique or dupli	icate values		
10	Branch 4	135	474	885	659		► Us	e a formula t	to determine	which cells to for	nat 🔻	
11	Branch 5	193	779	165	944		Edit th	e Rule Descr	intion:			
12	Branch 6	243	243	992	43				iption.			
13	Branch 7	398	85	534	951		Form	at values of	hare this form	aula is true:		
14	Branch 8	491	127	363	83		(=AN	D(\$A7=\$	SBS1,BS6	5=\$B\$2)		1
15	Branch 9	605	594	288	363							
16	Branch 10	670	849	1,028	1,028							
17						1	Previ	ew:	AaBbO	CcYyZz	<u>F</u> ormat	t
18	-											
19	-									OK	Can	rel
20	-									- OK	Curre	
21	-					_						

#1501: Activating Developer tab in v. 2007



#1501: Activating Developer tab in v. 2010-13





		Fo	rma	at Contr	ol		
Size	Protection	Propertie	es	Alt Text	Control		
<u>C</u> urrent	value:	0	1				
Minimu	<u>M</u> inimum value:		-				
Ma <u>x</u> imu	Ma <u>x</u> imum value:		-				
Increme	Incremental change:		-				
Page ch	ange:		*				
Cell <u>l</u> ink	Cell <u>l</u> ink:				1		
√ <u>3</u> -D	shading			© Yoda L	earning Solution	IS	

NB: The feature is used to change the input values (assumptions) at the click of a button. The referred "Form Control" buttons cannot accommodate <u>decimal values</u>, <u>% values</u> or a value <u>outside 0-30,000 range</u>.

#1	504:	PMT

=PMT()

PMT	D		Y X								
Rate	10%/12	=	0.008333333								
Nper	36	=	36								
Pv	750000	=	750000								
Fv		=	number								
Туре	0	=	0								
 -24200.3904 Calculates the payment for a loan based on constant payments and a constant interest rate. Type is a logical value: payment at the beginning of the period = 1; payment at the end of the period = 0 or omitted. 											
Formula result = -24200.	3904										

#1504: What IF Analysis – Goal Seek

Goal Seek helps back calculate input based on pre-defined target answer.

DAT	4	REVIEV	V VIE	W DEVEL	OPER							
ction:	₽↓	Z A A Z		Clear			→		→ □	.		
nks	Ă↑	Sort	Filter	Ty Advance	d Text to Columns	Flash Fill	Remove Duplicates	Data Validation •	Consolidate	What-If Rel Analysis ▼	ationships	Grou
-	Sort & Filter							Data T	ools	<u>S</u> cenario	Manager	
										<u>G</u> oal Se	ek	
										Data <u>T</u> a	ble	

Here it's targeting an EMI of Rs. 20,000 and is trying to back calculate what can be the loan amount given the fixed duration and interest %.

	А	В		С	D
1					
2	Loan Amt. Rs.	500,000.0	< _	Goal Seek	? ×
3	Interest % p.a.	13.0%		S <u>e</u> t cell:	
4	Duration (Yrs.)	2.0		To <u>v</u> alue: -200	00
5				By changing cell: SBS2	
6				ОК	Cancel
7	EMI (Rs.) using PMT	(23,771)	 _		
8		=PMT(B3/12,B4*12,B2)	-		

	А	В
1		
2	Loan Amt. Rs.	420,682.2
3	Interest % p.a.	13.0%
4	Duration (Yrs.)	2.0
5		
6		
7	EMI (Rs.) using PMT	(20,000)
8		=PMT(B3/12,B4*12,B2)

#1505-1506: What IF Analysis – Data Tables (Sensitivity Analysis)

Price & Quantity leads to revenue. Cost component includes Fixed & Variable component. Comparing Revenue vs. Cost yields Profit.

	A B © Yoda Lea	arning So G tions
1	DATA TABLES	
2		
3	Sample Revenue-Cost Mod	lel
4		
5	Price (Rs.)	15.00
6	Quantity sold	2,000
7	Revenue	30,000
8		1
9	Variable Cost (Cost of Material, Labor)	15,000
10	Fixed Cost (Rent, Salary etc)	20,000
11	Total Cost	35,000
12		
13	Profit= Revenue less Total Cost	(5,000)
14		
15		
	Assumption: Variable cost as a % of	
16	Revenue	50.0
47		

Step 1: Set the layout with up to 2 variables



Step 2: At the intersection of the 2-variables (top-left of the table), point the cell to the cell containing formula for effect value. E.g. C13 refers to Profit

	A B	С	D	E	F	G	Н	I	J
1	DATA TABLES						© Yoda	Learning S	Solutions
2									
3	Sample Revenue-Cost Mode	el		=C13	1500	2000	2500	3000	3500
4				10					
5	Price (Rs.)	15.00		11					
6	Quantity sold	2,000		12					
7	Revenue	30,000		13					
8				14					
9	Variable Cost (Cost of Material, Labor)	15,000		15					
10	Fixed Cost (Rent, Salary etc)	20,000							
11	Total Cost	35,000							
12									
13	Profit= Revenue less Total Cost	(5,000)							
14									
15									
	Assumption: Variable cost as a % of								
16	Revenue	50.0							

Step 3: Choose the table area (not more not less)



Step 4: Go to "Data Table"

LAS DAT	A	REVIEW	VIE	W DEVELO	PER				(🕽 Yoda Lea	rning Solution	IS
Connections	₽↓	Z A A Z		Clear			→		□ →□			→ [
Edit Links	Ă↑	Sort	Filter	Advanced	Text to Columns	Flash Fill	Remove Duplicates	Data Validation	Consolidate	What-If Analysis •	Relationships	Grou
ections			Sort & Fi	lter				Data	Tools	<u>S</u> cen	ario Manager	
1	J		к	L	м		N	0	Р	<u>G</u> oal	l Seet	
										Data	<u>T</u> able	

Step 4: Row Input Cell & Column Input Cell (single cell reference each)



VC	<u>V</u> ertical data (Say Prices)	<u>C</u> olumn Input Cell (\$C\$5)
HR	<u>H</u> orizontal data (say Qty Sold)	<u>R</u> ow Input Cell (\$C\$6)

Result: Generated Output – 2-variable sensitivity analysis

	A	E	F	G	Н	I	J
	1					© Yoda Learn	ing Solutions
	2						
Impact on I	Profit	(5,000)	1500	2000	2500	3000	3500
due to cha	nges	10	-12500	-10000	-7500	-5000	-2500
in Price &	Qty	11	-11750	-9000	- <mark>625</mark> 0	-3500	-750
	0	12	-11000	-8000	-5000	-2000	1000
	7	13	-10250	-7000	-3750	-500	2750
	8	14	-9500	-6000	-2500	1000	4500
	9	15	-8750	-5000	-1250	2500	6250
	10						

NB: Conditional Formatting can be applied to apply green / red colors for positive / negative nos.

#1507-1508: Data Tables (Sensitivity Analysis) - 2 Inputs & multiple Output

Step 1: Drop-Down list

				— Dror	-Down li	st	
	Α	E	F	of "	Imnact" c		J
1		Revenue	-	outp	ut variabl	es	
	Revenu	e					
2	Profit						
3		(5,000)	1500	2000	2500	3000	3500
4		10	-12500	-10000	-7500	-5000	-2500
5		11	-11750	-9000	-6250	-3500	-750
6		12	-11000	-8000	-5000	-2000	1000
7		13	-10250	-7000	-3750	-500	2750
8		14	-9500	-6000	-2500	1000	4500
9		15	-8750	-5000	-1250	2500	<mark>6250</mark>
10						© Yoda Learr	ning Solutions

Step 2: Output cells "named" using Name Box – same names used as list values of drop-down



	Α	E	F	G	Н	© Yo <mark>da Learnii</mark>	ng Solutions
1		Revenue					
2				,			
3		=INDIRECT	(E1)	2000	2500	3000	3500
4		INDIRECT	(ref_text, [a]	1) 20000	25000	30000	35000
5		11	16500	22000	27500	33000	38500
6		12	18000	24000	30000	36000	42000
7		13	19500	26000	32500	39000	45500
8		14	21000	28000	35000	42000	49000
9		15	22500	30000	37500	45000	52500
10							

Step 3: Using INDIRECT() in the Data Table – pointing to the cell containing drop-down list

NB: Form Control Buttons (Developer > Insert > Form Controls) can applied to control input numbers

#1601-1604A: Category wise SubTotal with Groupings

	А	B © Yo	da LeaGning
1	Vendor d	etails	(excerpts)
2	Supplier	Supplier Name	Transaction
5	Number	Supplier Name	Ant. Ks.
4	707256	D.C. Power System	125,279
5	707256	D.C. Power System	32,090
6	707256	D.C. Power System	136,529
7	707256	D.C. Power System	45,305
8	712157	ATMA Tele Power Limited	108,411
9	712157	ATMA Tele Power Limited	171,781
10	712157	ATMA Tele Power Limited	156,918
11	712158	ANZ Tele Power Ltd	74,676
12	712158	ANZ Tele Power Ltd	110,210
13	712158	ANZ Tele Power Ltd	20,866
14	712158	ANZ Tele Power Ltd	48,500
15	712158	ANZ Tele Power Ltd	193 193
16	777026	Agile Technologies	111 422
10	777020	Agrie rechnologies	111,433
17	777826	Agile Technologies	56,903

Supplier Names have been "Grouped" in clusters along with a "Subtotal" at the end of the list.

<u>Step 1:</u> SORT the data set with respect to the column heading on whose basis the Subtotal shall be generated. E.g. Supplier Name.

Step 2: DATA tab > SUBTOTAL

F	ORMULAS	DATA		REVIEW	VIE	W DEVELOP	ER									
A.C.	Connect	tions	₽↓	Z A A Z	\mathbf{Y}	Clear	¢.		→		->□	?				
5	ih B C Edit Link	les Is	Ă↑	Sort	Filter	Advanced	Text to Columns	Flash Fill	Remove Duplicates	Data Validation •	Consolidate	What-If Analysis ▼	Relationships	Group	Ungroup	Subtotal
	Connections			1	Sort & Fil	lter				Data To	ools					Outline

Step 3:

Subtotal ? ×	1. Choose the column name which has been sorted
Supplier Name Use function: Sum Add subtotal to:	2. SUM, MAX, AVERAGE etc.
3 Supplier Number Supplier Name Transaction Amt. Rs.	3. Choose column(s) under which Subtotal is needed
4 Replace current subtotals Page break between groups Summary helow data	4. For multi-level Subtotal, multi-level SORT is needed. Plus, tick away "Replace current subtotals"
Eemove All OK Cancel	5. For removing Subtotal, select entire data set and use "Remove All" button (bottom-left) from the Subtotal main box

NB: Use <Ctrl + G> - Visible Cells to highlight subtotal rows [Shortcut – ALT ;]

#1605-1606: Consolidate - 2 & 3 Dimensions

ſ	FORMU	LAS D	ATA	REVIEW	VIEW	DEVEL	OPER				© Yo	oda Learning	g Solutions
Ref	resh II - Conne	Connectio Properties Edit Links ections	ns ⊉↓ ∡↓	Z A A Z Sort	Filter	Clear Reapply Advanced	Text to Column	Flas s Fill	h Remove Duplicates	Data Validation Data	Consolidat Tools	te What-If Analysis •	Relationships
	А	В	С	D	E	F	G				©Υ	'oda Learnir	ng Solutions
1 2 3		Water Purif	ier (Basic)										
4		Jan	Feb	Mar	Apr	May	Jun						
5	Jacob	750	-	100	1,500	450	1,000						
6	Martha	1,200	1,200	1,450	400	1,000	1,200						
8	Kama	- 750	1,300	1,050	1 350	200	1,050						
9	Jack	200	200	1,000	450	850	50	_					
10											Consolidate	e	? ×
4	۵	B	C	D	F	F	6	\	Eunction:		•		
1		Water Puri	fier RO (Rev	erse Osmosi	s)		0		Sum	~			
2									Reference:				
3		Jan	Feb	Mar	Apr	May	Jun		'Water Purifier R	O'!\$A\$3:\$G\$9		1	Browse
4	Jack	250	1,150	-	200	1,050	150	<u>ا</u>	All references:				
5	Jacob	1,450	1,450	1,450	1,150	550	150		Water Purifier B	atest'1\$A\$4:\$G\$	9 59	^	Add
6	Louis	1,300	200	1,350	100	1,200	550		Water Purifier R	O'I\$A\$3:\$G\$9			Delete
8	Kama Sherley	100	150	1,100	1,400	1 200	1,000		Use labels in				
9	Sharon	- 100	600	900	800	500	900		Top row	ß			
10									Left column	Create	links to <u>s</u> ource da	ta	
	А	В	С	D	E	F	G	/				ОК	Close
1		Water Purifi	er (Latest)										
2													
4		lan	Feb	Mar	Δnr	May	lun						
5	Jacob	-	150	550	1,150	850	100						
6	Martha	1,250	600	150	500	150	750						
7	Rama	1,000	1,000	250	1,400	200	500						
8	Louis	600	350	750	150	-	450						
9	Jack	50	-	1,300	1,150	600	850						
10													

1	Function to be used for Consolidation: SUM, MAX, MIN, AVERAGE etc.
2	Source of data should be selected and "added"
3	Required for "Labels" and "Links to Source data"

Result:

ıped	She Na "Te	eet Names imply Imes can be extra ext-to-Columns"	ing Product acted using (Delimited)	Linke	d Formula	(Sel	using AL ect VISIBLI	COIOTII T ; E CELLS
	A B		D	Q You	F a Learning So	G	4	1
1 2			Jan	Feb	Mar	Apr	May	j
3		Water Purifier Basic	='Water Purifier B	asic'ISBS5		1,500	450	1,00
4		Water Purifier Latest	-	150	550	1,150	850	10
5		Water Purifier RO	1,450	1,450	1,450	1,150	550	15
6	Jacob		2,200	1,600	2,100	3,800	1,850	1,2
7		Water Purifier Basic	1,200	1,200	1,450	400	1,000	1,20
8		Water Purifier Latest	1,250	600	150	500	150	7
9	Martha		2,450	1,800	1,600	900	1,150	1,9
10		Water Purifier Basic		1,300	1,050	450	200	1,05
11		Water Purifier Latest	1,000	1,000	250	1,400	200	50
12		Water Purifier RO	600	500	1,100	1,400	200	1,0
13	Rama		1,600	2,800	2,400	3,250	600	2,5
14		Water Purifier Basic	750	1,400	1,000	1,350	600	65
15		Water Purifier Latest	600	350	750	150	-	4
16		Water Purifier RO	1,300	200	1,350	100	1,200	55
17	Louis		2,650	1,950	3,100	1,600	1,800	1,6
18		Water Purifier Basic	200	200	1,000	450	850	5
19		Water Purifier Latest	50	-	1,300	1,150	600	85
20		Water Purifier RO	250	1,150	-	200	1,050	1
21	Jack		500	1,350	2,300	1,800	2,500	1,0
22		Water Purifier RO	100	150	500	1,300	1,200	1,40
23	Sherley		100	150	500	1,300	1,200	1,40
24		Water Purifier RO		600	900	800	500	90
25	Sharon			600	900	800	500	90

#1701-1702: Cell level Security



Note: By default, ALL cells are "Locked" (identified for protection). Ensure that ALL cells in the sheet are "Unlocked" and only chosen ones are "Locked". Else ALL cells will be locked and no changes can be made.



#1703: Sheet level Security [Sheet Properties - "Very Hidden"]



#1704: File level Security



#1801: Page Set Up

XII 🔒 🔍	5 ° ¢	12	58 - 1 28 -	# 6 :	Ŧ			
FILE	HOME	INSERT	PAGE L	AYOUT	FO	RMULAS	S DATA	REVI
Aa A	Colors ▼ Fonts ▼							
Themes		Margins	Orientation	Size	Print	Breaks	Background	Print
- U	Effects *	~	~	-	Area 👻	•		Titles
Theme	25			Pag	je Setup	Page	e Set Up	

SN	Shortcut Key / Path	Objective
1	ALT, P, S, P	Page Set Up
2	CTRL + F2	Print Preview

#1801, 1802, 1804: Print Tricks

1

	Page Setup		? ×
Page Margins Head	ler/Footer		
Print <u>a</u> rea: A1:L41 Print titles			1
1 <u>Rows to repeat at top</u> :			1
Columns to repeat at left:			1
2 <u>G</u> ridlines	Co <u>m</u> me	nts: (None)	~
□ <u>B</u> lack and white □ Draft <u>q</u> uality	Cell <u>e</u> rro	ors as: displayed	~
Row and column head	lings		
3 Page order © Down, then over Over, then down	<u>Print</u>	Print Previe <u>w</u>	<u>O</u> ptions
		ОК	Cancel
ws to repeat at top	For headers to appear or Amount	n every page print	out. E.g. ID,

2	Gridlines		5	Switches on/	off the dotted-cel	l border w	/hile printing
	US\$ Bond issu	es from High	Grade Companies in US (Ma	ar-09) -	US\$ Bond issu	ies from Higl	h Grade Companies in US (Mar-09) -
	Issue Date	lssue Type	Issuer		Issue Date	lssue Type	Issuer
	03/02/2009	CORP	CONSUMERS ENERGY COMP	ANY	03/02/2009	CORP	CONSUMERS ENERGY COMPANY
	03/02/2009	CORP	FPL GROUP CAPITAL INC		03/02/2009	CORP	FPL GROUP CAPITAL INC
	03/02/2009	CORP	ANADARKO PETROLEUM CO	RP	03/02/2009	CORP	ANADARKO PETROLEUM CORP
	03/02/2009	CORP	ANADARKO PETROLEUM CO	RP	03/02/2009	CORP	ANADARKO PETROLEU M CORP
	03/02/2009	CORP	PITNEY BOWES INC	r	03/02/2009	CORP	PITNEY BOWES INC
		1			02/02/2000	CORR	MISSISSIDDI DOWED CO

	Ра	ge	Order - Ve	rtical v	's. I	lori	zon	ital		Fo hc	r ۱ riz	wor ont	with pr vertically	in y,	it area ex users can c	tendin lecide	g 1 the	o i pa	mu Ige	ltiple orde	pa r of	iges pri	nt o	b out
	A	B	C	0	E	F	G	н	1	Ĵ	к	L	- A	В	C	D	E	F	G	н	1	J	K	L
2		In concert	(and think Conde Company) and	UC (Mar 00) 111-	a bh a bl a a'	Dated							2 USt Bond in	may fr	rom High Grade Companies in L	IS (Mar.09) - (Henr	athetical	Datal						
- 4	022 Boud	Issues	from High Grade Companies in	US (Mar-US) - [Hijp	othetica	Dataj							3	ues n	tom riigh trate companies in c	o (maroa) - (right	Juleuca	Datal						
4													4											
	Issue	Issue			Moody'		Curren P	rineipal Amt	Coupo				Issue I	ssue			Moody'		Durren	Principal Amt	Coupo			
5	Date	Type	Issuer	Industry	s -	S&P	og	(US\$ mn)	n .	Maturity	Price	Yield	5 Date 1	Tgpe	Issuer	Industry	5	S&P	6g	(US\$ mn)	n	Maturity	Price	Yield
6	00/02/2009	CORP	CONSUMERS ENERGY COMPAN	IN UTILITY	Baale	8884	USD	500	6.700 %	09/15/2019	33.952	6.706%	6 00/02/2009 CC	JHP	CUNSUMERS ENERGY COMPANY	UTILITY	Basie	RRB6	USD	500	6.700 %	03/15/2019	33,352	6.706%
- (03/02/2009	CORP	FPL GROUP CAPITAL INC	UTILITY	82+	A-8	USU	500	6.000 %	03/01/2019	99.957	6.006%	8 02/02/2009 CC	ייחנ סמר	ANADADYO DETDOLEINACODD	ENEDGY	Pag20	DDD.A	USD	500	7.000 %	0.02016/2019	99,700	7.005%
9	03/02/2009	COPP	ANADARKO PETROLEUM CORP	ENERGY	Data39	000-0	USD	500	9 700 %	03/10/2014	99,005	0.747%	9 00/02/2009 CC	IRP	ANADARKO PETROLEUM CORP	ENERGY	Baale	BBB-e	USD	600	8700 %	02/15/2019	39,685	8747%
10	03/02/2009	CORP	PITNEMEOVESINC	OVERSIEED	Ale	Ae	USD	200	6 250 %	00/15/2019	39,821	6274%	10 00402/2009 CC	ORP	PITNEMBOWES INC	DIVERSIFIED	Ale	Ae	USD	310	6.250 %	0.2215/2019	99.821	6.274%
11	03/03/2009	CORP	MISSISSEPPOMPLO	UTILITY	Ale	Ae	USD	25 0	5650 X	03/01/2019	99.306	5.842%	11 03/03/2009 C0	ORP	MISSISIEPIPONERICO	UTILITY	Ale	Ae	USD	1200	10000	032 2019	99.306	5.642%
12	03/03/2009	CORP	ELILLY & OCI UUU	PHARMACEUTICA	A1	AA	USD	000 01	3010-5	02/08/2012	99.898	3.586%	12 03/03/2009 C0	ORP	EULLY&OCIUC	PHARMACEUTICA	A1	AA	USD	000 01	3550-4	0/20672012	89.898	3.586%
13	03/03/2009	CORP	ELI LILLY & CO 🥥	PHARMACEUTICA	A1	AA	USD	1,000	1.200 %	03/06/2014	99.955	4.210%	13 00/00/2009 CC	ORP	EULLIY&CO 🥥	PHARMACEUTICA	A1	AA	USD	1,000	1200 %	03/06/2014	\$9.955	4.210%
14	03/03/2009	CORP	EU ULLY & CO	PHARMACEUTICA	A1	AA	USD	400	5.950 %	11/15/2037	39.019	6.023%	14 00/03/2009 C0	DRP	EULILY&CO	PHARMACEUTICA	A1	AA	USD	400	5.950 %	11/15/2037	99.019	6.023%
15	03/04/2009	CORP	APPALACHAN POVER CO	UTILITY	Baa2e	BBBe	USD	350	7.950 %	01/15/2020	99.551	8.015%	15 03/04/2009 CC	JRP	APPALACHIAN POVER CO	UTLITY	Baaze	BBB6	USD	350	7.950 %	01/15/2020	39.551	8.015%
17	03/04/2009	CORP	GEURGE VASHINGTON UNIVER	UNIVERSITY	81	8+	050	200	6.000 %	02/01/2019	100	8.000%	17 02/04/2009 CC	app	MISCHIECE EMANCE CODE	UTUTY	Pag2a	000.4	USD	600	10.250 %	02/01/2018	99.795	11000%
18	02/05/2009	CORP	RP CAPITAL MARKETS PLC	ENERGY	Asle	AAe	USD	1500	3125 %	00/10/2012	33 334	3 127%	18 00/05/2009 CC	ORP	BP CAPITAL MARKETS PLC	ENERGY	Aale	884	USD	1500	3.125 %	03/10/2012	\$9,994	3.127%
19	03/05/2009	CORP	BP CAPITAL MARKETS PLC	ENERGY	Aate	AAe	USD	750	3.875 %	03/10/2015	99.889	3.896%	19 03/05/2009 C0	ORP	BP CAPITAL MARKETS PLC	ENERGY	Aate	AAe	USD	750	3.875 %	03/10/2015	99.889	3.896%
20	03/05/2009	CORP	EP CAPITAL MARKETS PLC	ENERGY	Aate	AAe	USD	1,000	4.750 %	03/10/2019	99.732	4.784%	20 03/05/2009 CC	ORP	BP CAPITAL MARKETS PLC	ENERGY	Aate	AAe	USD	1,000	4.750 %	03/10/2019	99.732	4.784%
21	03/09/2009	CORP	PG&E Corp	UTILITY	Baale	BBB¢	USD	350	5.750 %	04/01/2014	33.456	5.875%	21 03/09/2009 CC	ORP	PG5E Corp	UTILITY	Baale	BBB¢	USD	350	6.750 %	04/01/2014	\$9.456	5.875%
22	03/03/2003	FIN	BANK OF AMERICA CORP	BANK	Asse	AAAe	USD	4,000	FBN	09/13/2010	100		22 00/09/2009 FI	N.	BANK OF AMERICA CORP	BANK	Asse	AAAe	USD	4,000	FRN	09/13/2010	100	
23	03/09/2009	FIN	BANK OF AMERICA CORP	BANK	Aaae	AAAe	USD	2,500	FRN	06/22/2012	100		23 03/09/2009 FT	N	BANK UF AMERICA CURP	BANK	Asse	8888	090	2,500	FHN	06/22/2012	100	2.68
29	03/09/2009	FIN	SCALEDAL DI DO CAD CODO	BANK	A996	AAAA	050	2,000	2.375 %	0572272012	33.889	2.411	25 00409/2009 FF	N N	GENERAL ELEC CAR CORP.	DANK	0.530	0.0.00	USD	2,000	EDM	02/19/2012	100	2.911
26	03/03/2003	EN	GENERAL FLEC CAP CORP.	RANK	Ame	AAAe	USD	4.000	1800 %	03/11/2011	33,953	189655	26 00/09/2009 FT	Ú.	GENERAL ELEC CAP CORP	BANK	Asse	AAAe	USD	4,000	1.800 %	03/11/2011	\$9,969	1.816%
27	03/09/2009	FIN	GENERAL ELEC CAP COPP	BANK	Aaae	AAAe	USD	1,500	2.250 %	03/12/2012	99.96	2.264%	27 00/09/2009 FI	N	GENERAL ELEC CAP CORP	BANK	Asse	AAAe	USD	1,500	2.250 %	03/12/2012	99.96	2.264%
28	03/09/2009	FIN	GENERAL ELEC CAP CORP	BANK	Aaae	AAAe	USD	2,500	FBN	03/12/2012	100		28 03/09/2009 Fil	N	GENERAL ELEC CAP CORP	BANK	Aaae	AAAe	USD	2,500	FRN	03/12/2012	100	
29	03/10/2009	FIN	US BANCORP	BANK	A 3 2 0	AAAo	USD	750	2.250 %	03/13/2012	99.988	2.254%	29 03/10/2009 FI	V.	USBANCORP	BANK	Aaao	AAAe	USD	750	2.250 %	03/13/2012	99.988	2.254%
- 30	00/10/2009	CORP	CYS CAREMARK CORP	PETALER	Baa2e	BBB+6	USD	1,000	6.600 %	03/15/2019	33,365	6.888%	30 00/10/2008 C0	JHP	CVS CAREMARK CORP	HEINILER	E-aaZe	BBB+6	USD	1000	6.600%	0.971542019	33.365	6.888%
- 32	0378072009	EN	MODIANE THE POL	PANK .	P/2	8-	USU	100 0	6.000%	0102038	33,584	0.060%	32 02/02/00 ET	unit.	MORIAN RICH POL	RANK	A 2 2 0	0000	USD	in or	NERRA	011202008	100	0.080%
33	02/10/2008	EM	MORDANISTADI BY	RANK	Aase	8880	USD	1000	2010 %	100002012	39,859	2 2995	33 03/10/2009 FI	v.	MORGAN STOLLEY	BANK	Aaae	AAAe	USD	2000	2050.4	0323/2012	59,859	2.299%
34	00/11/2009	CORP	FLORIDA POVERNMONT	UTILITY	Asle	An	USD	500	0.360 %	04/01/2039	99.927	5.965%	34 00/11/2009 CC	ORP	FLORIDA POWERNAIGHT	UTILITY	As3e	Ae	USD	500	6.360 %	04/01/2039	\$9.927	5.965%
35	03/11/2009	FIN	UNION BANK NA	BANK	Aaae	AAAe	USD	500	FBN	03/16/2011	100		35 00/11/2009 FI	N.	UNION BANK NA	BANK	Asse	AAAe	USD	500	FRN	0/0/16/2011	100	
36	03/11/2009	FIN	UNION BANK NA	BANK	Aaae	AAAe	USD	500	FBN	03/16/2012	100		36 03/11/2009 Fil	N.	UNION BANK NA	BANK	Asse	AAAe	USD	500	FRN	03/16/2012	100	_
37	03/11/2009	CORP	EATONCORP	DIVERSIFIED	A3e	A-e	USD	250	5.950 %	03/20/2014	99.955	5.958%	37 03/11/2009 CC	ORP	EATON CORP	DIVERSIFIED	A3e	A-0	USD	250	5.950 %	03/20/2014	99.965	5.958%
-38	03/11/2009	CORP	EATON COHP	DIVERSIFIED	A3e	Are	USD	300	6.350 %	03/20/2019	33,494	7.021%	30 03/11/2009 CC	JHP	VALT DRAFY COMPANY	LIVERSHED	M30	A-0	USD	300	6.300 %	03/20/2019	33.494	7.02% E E 2447
- 33	03/11/2009	EN	WALLUGINET CUMPANY	PANK	H24	0.000	USU	2,000	2,900 %	02/19/2019	33,876	2.942%	40 0021222009 EF	unr" V	ING GROEP NY	RANK	0.00	0004	1190	2,000	3 900 %	03/19/2018	99.807	3.943%
41	02/12/2008	CORP	SYSCO CORPORATION	CONSUMER	Ale	Are	USD	250	5.375 %	03/17/2014	99.321	5 464%	41 03/12/2009 CC	DRP	SYSCO CORPORATION	CONSUMER	Ale	A+9	USD	250	5.375 %	03/17/2019	99.321	5.464%
40			A CONTRACT OF A CONTRACT	a second second second	. 08								managem and the second s											

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#1805 - 1806: Print Tricks for Financial Analysts - Check underlying formulas

				Page	Setup	() ,	Yoda Lei	? arning Solu	×
Page	Margins	Header	/Footer	Sheet				0	
Print <u>a</u> re	a: A1:L41								1
Print title	s repeat at t								1
<u>C</u> olumi	ns to repeat	at left:							
Print -									
□ <u>G</u> ric	llines			2	Co <u>m</u> ments	: (None	:)		~
Dra	:k and white ft <u>q</u> uality				Cell <u>e</u> rrors	as: displa	yed		~
Rov	v and co <u>l</u> um	n headir	ngs						
Page ord	er vn, then ove r, then dowi								
					Print	Print Pre	vie <u>w</u>	<u>O</u> ptions	
							or	Can	el

1	Row and C	Column he	adings	Displays the row h out. To be used at Ctrl`(the the work	neadings (1, fter activatir e special cha sheet	2,3 ng th ract) and colu ne below me er key aboy	umn head entioned s ve the TAE	ings (A, B, C) in the print shortcut key: 3 key) - Displays all formulas of
							А	В	С
					-	1	Ì	•	
	US\$ Bond issu	ies from Hig	h Grade Co	mpanies in US (Mar-09)	-	2	US\$ Bond issu	es from Hig	h Grade Companies in US (Mar-09) -
						3			
						4			
	Issue Date	lssue Type	:	Issuer		5	Issue Date	lssue Type	Issuer
	03/02/2009	CORP	CONSUM	ERS ENERGY COMPANY		6	03/02/2009	CORP	CONSUMERS ENERGY COMPANY
	03/02/2009	CORP	FPL GROU	JP CAPITAL INC		7	03/02/2009	CORP	FPL GROUP CAPITAL INC
	03/02/2009	CORP	ANADARK	O PETROLEUM CORP		8	03/02/2009	CORP	ANADARKO PETROLEUM CORP
	03/02/2009	CORP	ANADARK	O PETROLEUM CORP		9	03/02/2009	CORP	ANADARKO PETROLEUM CORP
	03/02/2009	CORP	PITNEY B	DWES INC		10	03/02/2009	CORP	PITNEY BOWES INC
	03/03/2009	CORP	MISSISSIP	PI POWER CO		11	03/03/2009	CORP	MISSISSIPPI POWER CO
	03/03/2009	CORP	ELI LILLY (& CO		12	03/03/2009	CORP	ELI LILLY & CO
	03/03/2009	CORP	ELI LILLY (& CO	F 1	13	03/03/2009	CORP	ELI LILLY & CO
	03/03/2009	CORP	ELI LILLY (& CO	IVS.	14	03/03/2009	CORP	ELI LILLY & CO

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2	Comments	Entire worksheet's comments can be displayed at the end of the worksheet along with cell reference. Useful to keep a track of all the in-cell comments that are scattered on the worksheet.
		Cell: C8 Comment: Roy Jr.: Refer email dtd 21-Apr-2009
		Cell: E11 Comment: Yoda Learning: Annual Report Pg 21

#1807: Print Entire Workbook

Excel v. 2007	Excel v. 2010/2013
	 Example 1
Print ? ×	Info Print
Printer Name: Status: Idle Status: Idle Find Printer Type: Foxit Reader PDF Printer Driver Find Printer Where: FOXIT_Reader: Comment: Print range Copies Number of copies: Pane(s) From: To:	New Open Save Save As Print Print Share Opies: 1 Copies: 1 Print Opies: 1 Print Print Print Print Print Print Print Print Print Print Print Print
Print what Selection Image: Collate Active sheet(s) Table Ignore grint areas OK	Export Settings Close Print Active Sheets Account Print Active Sheets Options Print Entire Workbook Print Selection Only print the current selection Ignore Print Area Ignore Print Area

#1901: Comments - Shortcuts, Inserting Picture in Comment Box)

SN	Shortcut Key / Path	Objective
1	Shift + F2	Insert/Edit Comment
2	ALT, R, A	Show All Comment
3	Ctrl + Shift + O	Go To (Special) -> Comment
4	Ctrl + Alt + V -> Comment	Paste Special -> Comment

Inserting a Picture in the comment box:





2	ARRANGE ALL	Helps stack / arrang	e open windows side-by-side
	Arrange W Arrange Tiled Horizon Yertical Cascade Windows	Vindows ? × tal of active workbook	Important: If multiple workbooks are open and you wish to stack "windows" of a specific workbook side-by-side, use the last checkbox – "Windows of active workbook". If not chosen, the "Arrange Windows" feature will stack ALL the windows of all open workbook side-by-side thus, creating a temporary screen clutter.

#1903: Hyperlinking (Ctrl + K)



Quick Tip: New function in v. 2013				
HYPERLINK(Ink_location, [friendly_name])	 Example: = HYPERLINK("http://www.yodalearning.com", "Click here for Excel Tricks") For more details, refer Microsoft Excel help 			

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