Annotated Screens Of Multiple Functions

Paste Special	ighlight	ing	the use	and purp	ose	
Select Column	Ctrl + Space	Select &	Clear Filter	$Alt \to a \to c$	Filter	

Calculat

Others

<u>AVERAGE</u>

For the average (AVERAGE) function, I wanted to be able to show the average number of tickets sold for each film. When advertising would be created for the store that was proposed, we wanted a number that could be shown that would show how popular the top 20 films had been so that a figure could be used in marketing materials to catch attention



AVERAGE function input in formula bar and cells referenced

MAXIMUM

A MAX function was input here as I wanted to prevent over-charging on the store. The prices had been pre-set, so if I knew the maximum price that could be charged, this would give the store the ability to prevent erroneous large transactions that would have to be refunded

MINIMUM

Likewise I wanted to use the same function but for the minimum (MIN) price, so that we could prevented a lower than intended price being accepted at checkout stage, thus costing the store money



<u>SUM</u>

The SUM function was used here as reports were going to presented to management regarding running costs and profit. In this example I used the sum function to add together the values in two separate cells, representing the income from rental sales and purchase sales added together, so that we could see an initial pre-deduction profit



SUM function input in formula bar and cells referenced

IF, OR & LESS THAN

Multiple functions were used in this example, as multiple values need to be taken into account in a formula. I wanted to put an offer on film rentals to try and increase rental business. The distributor Universal had agreed to take part in the offer, and any film of theirs could be used in the offer regardless of the rental price, but for other distributors a 20% reduction could be applied only on any rental costing less than \$4.99. To do this, a formula had to be input so that IF a film was LESS THAN(<) \$4.99 to rent, OR the distributor was Universal, than the 20% reduction could be applied, and the cell the formula was used in would give the discount amount to be used at checkout

F9 Shift + F9 Calculate Ctrl + Alt + F9 F5 \rightarrow Alt + s Ctrl + f Ctrl + h Excel to

 Formula starts with the IF part so that Excel knows a condition will be set
 Shift + Space Cit + Space Cit + Arrow Shift + Shift + Shift + Arrow Shift + Arrow Shift + Shift +

IF, AND & MORE THAN

COUNT

Like the previous example, I wanted to use an offer to increase sales as well as rentals. Just like the rentals, 20% would be taken off the price of purchase, but this time the distributors were a lot less willing to take a hit on profits with this promotion. In the end, Universal were the only distributor who agreed to take part in this promotion, and the reduction could only be applied on films costing more than \$12.99. So a formula was created that said IF a film was put through on checkout that was MORE THAN (>) \$12.99 AND was distributed by Universal, than a 20% reduction could be applied

Formula starts with the IF part so

that Excel knows a condition will

The COUNT function was used as management wanted to know how many of the films fell under which ratings, and this was for two reasons. Firstly, the higher the ratings, the less individuals there will be who are actually able to see the film, and so with higher ratings comes potentially less profit for a rental store, so this would need to be taken into account in accounting. Secondly, if there were a higher number of films with an 'R' rating, than a memo would need to go out to staff to be particularly vigilant to prevent any unauthorised rentals/sales

be set

The '>' symbol is used in Excel to represent MORE THAN

The left bracket is then input and AND is inserted to that multiple conditions will need to be met



=IF(AND(12>12.99,Q2="Universal"),12*20%,0)

Purchase Pric 💌

\$19,99

Purchase Price Discount Amount 💌

\$0.00

ABSOLUTE REFERENCING

Absolute referencing is used when the value in a specific cell is required in a formula, and that formula is then copied to multiple cells, but the reference cell needs to stay the same, rather than being changed to suit the location of the other cells the formula is being copied to. Management had requested information regarding the gaps of tickets sold at the cinemas against the number one film. The reason for this was that they wanted to know if the number one film sold more tickets than the others by a large majority. If so, advertised would be heavily focused around that, but if there were no large gaps in the tickets sold, then advertising would be spread more generally between the films. Therefore I had to make sure that the tickets sold for the number one film was the only cell referenced when working out the gap between the other films.

RELATIVE REFERENCING

Referring back to the deduction on the rental price of a film if certain criteria were met, I needed a way that would work out the new rental price of a film for all 20 films without having to manually complete the process for each film. Excel has the ability to copy a formula and then change the reference cell in relation to what cell the formula was copied from, so that the value it used would go down a cell every time the formula was copied down a cell, as opposed to absolute referencing, where the value cell would stay the same

dd \$ in Forr

\$ not used here so that when the formula is copied down to next cell, the formula changes so that reference cell also moves down one cell \$ symbols used before the letter and number of the cell reference so tell Excel the cell is absolute



CONDITIONAL FORMATTING

I wanted to use this feature so that information could be visually presented easier when showing figures to management. I wanted to highlight the occasions that rental income was between \$13,000 and \$20,000 as these would be the months used to cover any shortfall in profits from traditionally quieter months for rentals (e.g. January), so I used the tool that would highlight these cells in a different font and background colour so that management could easily see this information

LINKING TO OTHER SHEETS

I wanted to be able to link sheets together as having multiple sheets in a workbook can be become time-consuming to navigate. Having created my at-a-glance section for management, I wanted to put a link in so that they could easily access the sheet that contained running costs, rather than having to manually find it, with the same function added for the sheet containing loyalty card sales

April		\$15,85
Sources for Data		
<u>Click here for Microsoft store pa</u>	ge	
Running costs click here		
<u>Loyalty card sales click here</u>	file:///G:\Documents\HE Access Computing And Programming\Spreadsheets\Assignment Items\Assignment.xlsx - 'Running Costs & Hours'\A1 - Click once to follow. Click and hold to select this cell.	

	1				
	2		Rental Income	Purchase Income Dental Defill Durchase Defill Staff costs Tatal Income Tatal	Гхре
•	3	November	\$21,000.07		
	4	November Tota		Select a Rule Type:	
	5	December	\$19,126.75	► Format all cells based on their values	
	6	December Total		► Format only top or bottom ranked values	
	7	January	\$12,124,44	► Format only values that are above or below average	
	8	January Total	, , , , , , , , , , , , , , , , , , , ,	Format only unique or duplicate values Ise a formula to determine which cells to format	
.	9	Feburary	\$16.887.01		
	10	Feburary Total	<i>\</i>	Edit the Rule Description:	
	11	March	\$14 558 22	Format only cells with:	
	12	March Total	÷14,556.55	Cell Value v between v =13000 👪 and =20000	
	12	April	¢10 401 01		
	15	April Total	\$18,401.81	Provinue ApDCCVv7z Format	
	14	April Total			
	15	Grand Total		OK Cancel	
	17				

This comes up so that the conditions can be set and what the cell will look like when those conditions are met. In this, the cell value is between \$13,000 and \$20,000



HYPERLINKS TO WEBSITES

I needed to insert a hyperlink to Microsoft's online film store as that is what the information that our store would use is based on, so I wanted management to easily access the store if they want to check if any of the information I gathered was incorrect or had changed

Sources for Data	
Click here for Microsoft store page	
Running costs click here	https://www.microsoft.com/en-us/store/ movies-and-tv/browse/top-selling?type= movies - Click once to follow. Click and hold to select this cell.

PIVOT TABLE

A pivot table can be very useful for the store when trying to see which distributors are useful for which categories. Management had wanted a table to be created that took into the distributors, the genres and the ratings of all the twenty films and present them in a way so that we could see what the strongest genres are for distributors. With the pivot table we were able to find out not only which genres had the most representation among the distributors (which helps with allocating space for genres in the store), but we could also see which distributor's films scored the highest star ratings in the genres, which would help when trying to work out which distributors we could trust the most for film quality, which is vital for the success of our store

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ount of Rating	Column Labels	-				he
ow Labels 📃 🔽		1 2	3	4 Gr	and Total	
Action			2	3	5	W
Paramount Pictures			1		1	e
Universal				1	1	
Walt Disney				2	2	
Warner Bros.			1		1	
Adventure			2	5	7	
20th Century Fox			1		1	
Lionsgate				1	1	NC
Paramount Pictures				1	1	lat
Universal				1	1	
Walt Disney			1	1	2	ple
Warner Bros.				1	1	on
Comedy		21	1		4	
20th Century Fox			1		1	
Sony Pictures		1			1	ke
Universal		1			1	
Warner Bros.		1			1	
Drama		1			1	
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Microsoft

Movies

✓ Charts
 Best selling
 Top rented

Best-rat

Refine results

✓ Departments

Top-	sellina	movies	
iop	senning	movies	
Movies	Best selling		
Showing 1	- 54 of 1000 re	sults	
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Store locations

Rusiness M

Games & Entertainment V Deals

DCU: Reign of the Supermen + Bonu

This table shows the star ratings along the top and how many of which film by which distributor in which genre got how many stars

FREEZE TITLES/FREEZE PANES

Some of the sheets in my workbook are quite large but require checking in a number of categories quite regularly. I wanted to be able to keep the column showing the position of the film (e.g. the highest selling film at number one and the 20th best selling film at number 20), while being able to scroll across different columns so that I could compare information. I used the Freeze tool for this so that number column would not move. I also though wanted the same ability for if I was scrolling down the sheet, so then I would always know the title of the column, so that I would still be able to know which category the values represented without having to scroll back up to the top of the sheet



Scrolling down to the number seven film, but the titles move along with it so I know what the column is about

1	A	B Title	c Genre 🔻	Cer	The sheet keeps scrolling	H3		•	$\times \checkmark f_x$	=F3-G3		
2	1	Iron Man 3	Action	F	across, but the number column stays on the left but does not disappear from view	1	1	E Rating ▼ 4	F Rental Price ▼ \$3.39	Renta		
3	2	The Hunger Games: Catching Fire	Adventure	F		3	2	4	\$3.39			

OBJECT LINKING

As part of setting up a new store, printed sheets have to be prepared to give management six-monthly reports. Instead of trying to type up all the information in a Microsoft Word document, or trying to print off separate sheets from my workbook, it is simpler and looks more professional to embed the data from the workbook in the Word document. So using the Copy function in Excel and then using Paste and Paste special in Word, I am able to copy across the required tables and charts, and also have them update in the Word document when they are updated in the workbook

	Rental Income	Purchase I	ncome	Rental Refill	Purchase Refill	Staff costs	Total Income	Total Expenditure	Total Profit/Loss
November	\$21,000.07	v.	30,000.78	\$300.00	\$15,579.00	\$10,000.65	\$51,000.85	\$25,879.65	\$25, 121.20
December	\$19, 126. 75	<i>u</i> ,	\$45,001.25	\$300.00	\$16,576.27	\$14, 125.20	\$64,128.00	\$31,001.47	\$33, 126.53
anuary	\$12, 124. 44								
eburary	\$16,887.01	Micro	soft Word						
March	\$14, 558. 33								
April	\$18,401.81		This	document contair	ns links that may ref	er to other file:	s. Do you want to	update this document v	vith the data from the linke
he store's tot	al profit/loss ratio r	ema	SI	now Help >>					
						Yes	No]	
				\$:	25,879.65	Yes \$25,12	No]	
			_	\$: \$:	25,879.65	Yes \$25,12 \$33,12	No 1.20 6.53]	

The Excel workbook has updated since the data was put into the Word doc, so Word asks if I want to update the data

			Otrl + 1		Calculate worl			
		y high,	with only one month (Janu	ary) presenting a loss, se	een here			
		1	Total Expenditure	Total Profit/Loss	dou	Total Expe	nditure	Total Profit/Loss
			¢25.970.65	\$25,121,20	alcu	5	\$25,879.65	\$25,121.20
			\$25,875.05	\$25,121.20	ecia.		Calibri	- 14 - A A
• •			\$31,001.47	\$33,126.53		0	\$31 B I	= & · A · · · ·
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the	producing the		\$20,000.22	\$15,852.74	a Va	5	\$22 B Par	ste Options:
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	least new Markahaat				Donast last A	4	\$25 Pas	ste <u>S</u> pecial
					Repeat last A			

The two columns are copied and then pasted into a Word doc so that they can be printed along with text

able to agree rights with all major distributors to rent out/sell all the year's biggest films Chart Title Გ- 🔼-Fill Outline

Presented in graph form we can see that the rental and purchase income over the last six months has been very strong, bolstered by the fact we have been



,	\$25	5 <mark>,879.6</mark> 5	\$25,121.20		
		Calibri	- 14 - A A	% ,	
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;	\$20	De	elete		
		CI	ear Co <u>n</u> tents		
			uick Analysis		

Filter

EXPORTING DATA

Exporting data is useful for when I need to show data in the p the Object Linking feature). Copying and pasting into the Work highlight just the two columns I feel are most important when report showing over the last six months our total expenditure a

HLOOKUP/VLOOKUP

The HLOOKUP and VLOOKUP functions are useful for when trying to work out overtime pay. The more overtime staff put in, the higher percentage increase of overtime pay they will receive. Rather than having to try and manually work out all the percentage increase overtime pay with a calculator, the HLOOKUP and VLOOKUP functions can be used to reference data running horizontally or vertically across set tables so overtime pay can be worked out much quicker

	$\times \checkmark f_x$	=HLOOKUP(C28,B20:G21	,2)			
Ą	В	С	D	E	F	G
	Overtime pay percentage per extra hours work (up to each value	ked ≥)				
	5	10	15	20	25	30
	0%	5%	10%	15%	20%	25%
	Jane Galloway					
	Staff no. M125					
	Full time hours	37.5				
	Full time hours worked?	YES				Rental Inco
	Overtime hours worked	15		\$25,000.00		
	Overtime % to a to pay	dd 10%		\$20,000.00		_



The HLOOKUP is using horizontally aligned data to work out what overtime percentage pay the employee will receive

SORTING

In the stock system, film titles needed to be arranged alphabetically to help locate files and stock when required. Trying to create a new sheet and manually workout the list would take too long, and would only have to be done again every time a new film was added. Using Excel's Sorting tool, this means the twenty film titles could easily be arranged in alphabetical order so that stock could be re-arranged straight away. The management also wanted this to be done by the names of distributors on a separate sheet to help when creating distributor-specific offers



The films are sorted by distributor. As numbers come before letters in the system, 20th Century Fox films start at the top

The films are sorted by film title alphabetically, so 'Despicable Me' starts at the top, but the number placement doesn't change and stays the same (it was the number three highest selling film)

> F4 (in Cell) In Cell Alt + Enter (in Cell)

other + = press keys at the same time

	N	0	P	Q	
	2013 US Gross	Tickets Sold	Ticket Gap To No. 1Film	Distributor 💌	Sto
	\$187,168,425	23,021,946	0	20th Century Fox	
rtcut + 1 + % + ! + ! /% "	\$159,581,587	19,628,731	3,393,215	20th Century Fox	a
a → c ow down → h → h → h → u → h → r hift + F1 p/ Page d	\$407,1 33,639	50,078,683	-27,056,737	Lionsgate	þ

FILTER & CUSTOM FILTER

Management had also requested specific information for getting ready to setup up the online store. In the first request, management wanted to be able to see which films were between 102 and 127 minutes in length, as this the server space (and therefore data amounts) films in this time range would take is where we could get the best server deals. Films longer or shorter than these set amounts would not represent good value when setting up the online store. Management had requested the alphabetical order of the film titles be kept, but with this new filter inserted. Management had also requested a separate filter to be inserted so that they could easily choose to see which of the twenty films had been supplied by specific distributors



The films can now be viewed by certain distributors if chosen, or all can be selected

WHAT-IF?

I had wanted to create an external display that would go out on a pavement area to try and direct attention to our store and increase pre-order rental incomes. There were a number of displays I could choose from, ranging from small to extra large. With the different sizes would come different costs for things like insurance and labour, but would also present the opportunity for increased income based on how much attention the display would grab. I wanted to assess though which size display would present the opportunity for most profit, so I set up the What-If analysis to take into the account the different costs and potential incomes, which were the presented in a table format that I could easily show the comparison to management

1 2	1 2	А	B C	D	E	F	G	н	
+	1 2 3 5		Scenario Sum	mary Current Values:	Small Display	Medium display	Large Display	Extra Large Display	
T:	6 7		\$C\$1 \$C\$1	7 £700.00 2 £25.00	£300.00 £25.00	£400.00 £25.00	£500.00 £25.00	£700.00 £25.00	
	8 9		\$C\$1 \$C\$1 \$C\$1	1 £50.00 0 £600.00	£20.00 £350.00	£30.00 £450.00	£40.00 £600.00	£50.00 £600.00	
:	11 12		\$C\$8 \$C\$7	£450.00 £600.00	£200.00 £175.00	£275.00 £300.00	£350.00 £500.00	£450.00 £600.00	3
	13 14 15		\$C\$6 \$C\$1 Result Cells:	£600.00 £500.00	£300.00 £215.00	£450.00 £315.00	£550.00 £415.00	£600.00 £500.00	
[.	16 17 18		\$C\$2 Notes: Current time Scenario S	2 -£825.00 Values column repr Summary Report was	£145.00 esents values of ch created. Changing	-£115.00 anging cells at cells for each	-£650.00	-£825.00	
	19		scenario are ni	gningnied in gray.					

The re table i

	2				
Costs					
Labourers		£300.00	Scenario Manag	er	?
Space rental		£175.00	Scenarios		
Sound system		£200.00	Small Display		Add
Lighting		£200.00	Medium display	/	700
Insurance		£350.00	Extra Large Display	play	Delete
Display cases		£20.00			Edit
Staff T-shirts		£25.00			
Total costs		£1,270.00			Merge
			_		Cumment
				~	summary
Expected revenues fro	om event		Changing calls	\$C\$5.8C\$13.8C\$17.8C\$	0
			Comment:	Subolisus 12, SUS 17:SUS 1	o
Pre-orders		£300.00		display	m an extra large dis
Loyalty cards	L	£215.00	_		
Existing film rentals		£900.00	-		
Totallevenue		£1,415.00	-	Ch	Class
Profit/loss		£145.00		21	Close
Shortcut	Туре		Action	SI	ortcut
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	Filter	Find Replac Delete/ Open D t Cre <u>ate</u>	e insert Row/ Co Data Validation Pivot Table		

DATA VALIDATION & DATA VALIDATION WITH DROP-DOWN LIST

When staff were entering the data about films into the workbook, I needed to make sure that limits were placed on the information entered. Since we were referring to films released in 2013, I needed to make sure staff only entered film release dates that could of occurred during 2013 so that none of the data was invalid. To do this, I setup validation to warn staff if they had entered a date that was not valid. I also wanted to setup a separate data validation with a drop-down list for the star ratings, as all the films had only scored between one and four stars, so I inserted the drop-down list so that staff could easily input a number that would not lead to invalid data



Rating 💌

4

Rental Price

\$3.99

CHARTS

Visually representing data is important when trying to show information to management when trying to persuade them to take a course of action. A number of charts and graphs are used in work book, tracking the changes of income from rentals and the sales of loyalty cards so that I could try and persuade management that the cards and rentals were worth persevering with enough if the figures had started out initially low, and I would not have been able to do this with visually flat numbers and cells alone







APPLY PRE-SET STYLE

When creating the data to be used for working out staff overtime percentage pay, I wanted to use a pre-set style, so that if any more tables needed to be created for overtime percentage, then admin staff could use the pre-set style for the table all the time. I thought the selected style was the best choice at the time



APPLY USER-CREATED STYLE

I had also wanted to create my own style, so that if admin had created a table for a different use but ended up using the same pre-set style, then my own created style could be used instead for the overtime percentage pay table

ST	VIF								
<u> </u>				Overtime	Normal	Bad	Good		
style,	so that if		as	Calculation	Check Cell	Explanatory	Hyperl		
feren	t use but				St	yles			
or the	overtime								
			-	1		J	к		
			145	.74	\$25,417.98	\$4,727.76			
			352	.96	\$20,000.22	\$15,852.74			
My o style	own user-cre e that I labell	eated ed							
'Ove	ertime' is use	d here		Overtime	pay percentage	per extra hours			
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				30	5	0.25			

IMPORTING DATA

Α

В

Day

Overtime

C

Monday

6

D

Tuesday

Hours Worked 7.00-21.00 7.00-19.00 7.00-19.00 7.00-17.00 7.00-19.00 7.30-16.30 08.00-20.00

4

2

4

1

The use of data import has been required for when staff submit their hours worked via electronic format. Some choose to write down their hours worked, but a few send in the data of their hours worked in a text document via email. Whereas I have no option but to manually type in the hours from the hand written forms, I can import the data from electronic text documents. In this example Mark sent in his hours worked in a simple text docum Handily, mark has used a comma to separate days, times and any overtime worked for me. means that when I import the data from the document, I can use the comma value as a separ between the fields, which makes the data read and separated into cells in Excel for me

Mark Cliffe Hours wc 24012016

The file containing the text is sent to me

The data has been separated with commas

Mark Cliffe Hours wc 24012016 - Notepad

File Edit Format View Help

Day, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday

Hours Worked, 7.00-21.00, 7.00-19.00, 7.00-19.00, 7.00-17.00, 7.00-19.00, 7.30-16.30, 08.00-20.00 Overtime, 6, 4, 4, 2, 4, 1, 4

the data fro example Ma ple text doc	om the ark has ument.	Text Import	Wizard - Step 1 of 3		?	x	I then t those c separat	ell on te t	E hr th
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Excel is then able to divide the data in separate cells so that they are immediately useable

SUBTOTAL & OUTLINE

The SUBTOTAL function has been useful for showing admin staff items like staff costs, as the function can create a line between each row and calculate the subtotal. In this example we are using it for giving us a subtotal between each month for the staff costs. This also adds an outline so that it so I can collapse specific months if I have already seen that data for the month

Excel is told which column to use for the automatic subtotals

	G	н	1		
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.00 .27 .78 .78 .31 .97	Staff costs \$10,000.65 \$14,125.20 \$7,001.85 \$7,001.85 \$7,800.67 \$7,925.25	At each change in: (Column B) Use function: Sum Add subtotal to: Rental Refill Purchase Refill Staff costs Total Income		✓✓✓	ota
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The outlines are then created, each can be collapsed if required for easier viewing

	2		Rental Income	Purchase Income	Rental Refill	Purch	
[·]	3	November	\$21,000.07	\$30,000.78	\$300.00		
-	4	November Tota					
[·]	5	December	\$19,126.75	\$45,001.25	\$300.00		
-	6	December Tota					
[·]	7	January	\$12,124.44	\$8,000.45	\$900.00		
-	8	January Total					
[·]	9	Feburary	\$16,887.01	\$9,010.64	\$320.00		
-	10	Feburary Total					
[·	11	March	\$14,558.33	\$15,587.41	\$400.00		
-	12	March Total					
[·	13	April	\$18,401.81	\$17,451.15	\$200.00		
-	14	April Total					
	15	Grand Total					
	16						

Note: Some shortcuts (such as "%" or "!") may require additional keys (such as "Shift")

ARRAY FORMULA

Management had been enquiring about the numbers of customers signing up for loyalty cards over the last six months, as there was debate about whether to keep offering incentives to sign up if the trend in sales was going down. I thought the best way to show this visually was using an Array Formula, as then I could use it to track the trends and work out if there was a best time to push the cards and when to hold back producing any more, depending on the month

I start off with the data of how many cards were sold in each month

			1									
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			3			November	December	January	Feburary	March	Apri	
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NESTED FUNCTIONS

When looking at the data for loyalty card sales, I wanted to use a simple message to reflect what had been happening with the card sales. Although staff could be presented with complex graphs and tables, I felt this may not have as much impact as just using a simple message. I used a nested function as I could use this to give clear message based on sales. I wanted to reflect that we would need to be better if we had sold below a certain number, but also say well done if the targets had been achieved, or even been exceeded. I used the basis of how many sales I thought would be a good total per month then created a simple message based on the actual numbers sold in relation to that

Different messages are
used based on if more or
less than 10 and 20 cards
are sold

Ce		√ fx =	UPPER(IF(C4>	10,"well done!",IF(C4	l>15,"excellent!!",IF(C4>20,"outstanding!!!	!",IF(C4<=10,"r	need to do	better")))))	
	А	В	с	D	E	F	G	Н	I I	J
1										
2										
3		November	December	January	Feburary	March	April			
4	Number sold	15	32	4	5	10	17			
5	Trend in sales	17.76	16.19	14.62	13.05	11.48	9.90			
6	Number sold	WELL DONE!	WELL DONE!	NEED TO DO BETTER	NEED TO DO BETTER	NEED TO DO BETTER	WELL DONE!			
7										

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