1. Change the color of each of the sheet tabs.

# **Microsoft Excel: Advanced Topics**

#### ACTIVITY #1

- 1. Open the Market Orders file
- 2. Select cells E2:E74 (the Order Amount)
- 3. Use Conditional Formatting to highlight in green all the orders over \$100
- 4. Use **Conditional Formatting** to highlight in red all the orders less than \$10
- 5. Clear the Conditional Formatting rules

## ACTIVITY #2

- 1. Open the **Budget** file. Determine which cells contain formulas.
- 2. Enter the word "Total" in cell E3.
- 3. Enter a formula in cell E4 to show the Total amount for Gasoline
- 4. Fill the formula in E4 down to the rest of the cells (down to cell E12)
- 5. Use **Conditional Formatting** to add Data Bars to the numbers in the Total Column (don't format the grand total)
- 6. Type "Percent of Total" in cell F3
- 7. In cell F4, create a formula to divide cell E4 by E12. Format cell F4 in the Percent format.
- 8. Modify the formula in F4, to make the reference to E12 an **absolute** reference.
- 9. Copy the formula down through F11.

	А	В	С	D	E	F
1	Our Budg	et				
2						
3		January	February	March	Total	% of Total
4	Gasoline	230	230	230	690	6%
5	Groceries	450	600	650	1,700	14%
6	Child Care	600	600	600	1,800	15%
7	Utilities	200	300	400	900	8%
8	Clothes	500	200	250	950	8%
9	Vacation	500	-	2,000	2,500	21%
10	Mortgage	1,000	1,000	1,000	3,000	26%
11	Entertainment	65	65	65	195	2%
12	Total	3,545	2,995	5,195	11,735	

### ACTIVITY #3:

With the Budget file:

1st Quarter	2nd Quarter	3rd Quarter	4th Quarter

1	E	
	Order Amount	
	\$13.32	
	\$58.43	
	\$188.85	
	\$109.11	
	\$32.37	
	\$48.83	
	\$151.52	
	\$33.68	



## ACTIVITY #4:

With the Budget file:

- 1. Go to the **2nd Quarter** sheet. In cell G3, type "1st Quarter"
- 2. Enter a formula in cell G4 to display the value in cell E4 of the **1st Quarter** sheet.
- 3. Fill this formula down to cells G5:G11
- 4. Go to the **1st Quarter** sheet. Change the value of Groceries in January to 500. Note how the January total is changed. Go back to the **2nd Quarter** sheet and see the change there also.

#### Activity #5

- 1. Open the Loan Calculator file
- Type the values for the Loan Amount, Length of Loan, and Annual Interest Rate as shown in the picture.
- 3. Look at the contents of cell B10. What is the formula used in cell B10?
- 4. Use the PMT function to create a formula in cell B11 to calculate the monthly payment.

	А	В									
1	Loan Calculator										
2											
3	Loan Conditions										
4	Loan Amount	100,000									
5	Length of Loan (in Years)	15									
6	Annual Interest Rate	5.0%									
7	Payments per Year	12									
8											
9	Calculation Results										
10	Total Payments	180									
11	Monthly Payment Amount										
12											

### ACTIVITY #6

- 1. Open the Vehicle Order Example File.
- 2. Look at the Price List table on the right. This will be your Lookup table.
- 3. Click in cell D2.
- 4. Use VLOOKUP to determine look up the price in the Lookup table for the Vehicle ID in cell B2. *Hint: the Table Array will be \$J\$2:\$P\$73*
- 5. Fill the formula down for the rest of the orders.
- 6. Change the Vehicle number for the third order to 897. Notice how the price changes.
- 7. Add a new order line with the current date for Vehicle number 1016. Fill a customer name and copy the formula from above to look up the price.

1	A	В		С	D	E	F	G	н	1	J	K	L	M	N	0	Р
1	Date	Vehicle #			Price						Price List						
2	9/12/2015			Oollar Markets ,FALSE)							ID #	YEAR	MAKE	TYPE	ODOMETER	DEPARTMENT ASSIGNED	PRICE
3	9/13/2015		Berglund								87	2002	Ford	Sedan	37780	Maintenance	20888
4	9/14/2015	1071		ces Market							195	2004	Ford	Truck	19870	Security	18682
5	9/15/2015		B's Bever	•							503	2003	Chevrolet	Sedan	8900	Maintenance	20904
6	9/16/2015	1445	B's Bever	ages							678	1995	Ford	Pickup	73419	Corporate	11866
7											?	×	Dodge	Van	43907	Maintenance	15844
8						Function Arguments ?							Ford	Van	24575	Corporate	19846
9				VLOOKUP	VLOOKUP								Chevrolet	Van	16896	Corporate	20824
10					Lookup value	SJS2:SPS73 = {"ID #","YEAR","MAKE","TYPE","ODO							Chevrolet Pickup Ford Pickup Chevrolet Van		37786	Corporate	13783
11												00			32765	Corporate	5000
12															138456	Maintenance	11449
13					ol_index_num								Ford	Sedan	59378	Marketing	20315
14					Range_lookup	FALSE		l.	= F/	LSE			GMC	Van	42313	Corporate	12500
15									= 11	866			Ford	Sedan	49973	Maintenance	15090
16					Looks for a value in the leftmost column of a table, and then returns a value in the same row from a column you							ımn you	Ford	Van	43678	Security	21580
17				specity. By det	specify. By default, the table must be sorted in an ascending order. Range_lookup is a logical value: to find the closest match in the first column (sorted in ascending orderi = TRUE or omitted: find an exact match = FALSE.								Chevrolet	Pickup	50580	Maintenance	14130
18													Ford	Sedan	62743	Maintenance	22413
19							ascending o	nucij - TRUE	or onlitte	u, iniu ali exa	cemaceri = FALS		Ford	Truck	12703	Corporate	22724
20													Chevrolet	Sedan	53383	Maintenance	16539
21				Formula result	Formula result = 11866								Ford	Pickup	52728	Corporate	14757
22				Help on this f	unction					0	K Ca	ncel	Ford	Van	3500	Security	22438
23				ricip off this h	an <u>saisti</u>								Ford	Van	93484	Marketing	12149