

MS Excel Exercises



- Introduction to MS Excel files, Workbooks, Worksheets, Columns and Rows.
- ▶ Formatting Worksheets.
- AutoFill, Numeric formats, previewing worksheets.

	Α	В	С	D	Е	F	G			
1	Payroll									
2	Date:	1/1/2011								
	EMPL	EMPL Name	Hourly	Hours	C D	C C T	Net Dev			
3	Number	EMPL Name	Rate	Worked	Gross Pay	S.S Tax	Net Pay			
4	E00001	Ford	7.5	35	?	?	?			
5	E00002	Mino	8	30	?	?	?			
6	?	Bell	6.5	25	?	?	?			
7	?	Davis	9	40	?	?	?			
8	?	Turro	10	39	?	?	?			

- 1. Open a new workbook and save the file with the name "Payroll".
- 2. Enter the labels and values in the exact cells locations as desired.
- 3. Use AutoFill to put the Employee Numbers into cells A6:A8.
- 4. Set the columns width and rows height appropriately.
- 5. Set labels alignment appropriately.
- 6. Use warp text and merge cells as desired.
- 7. Apply borders, gridlines and shading to the table as desired.
- 8. Format cell B2 to Short Date format.
- 9. Format cells E4:G8 to include dollar sign with two decimal places.
- 10. Calculate the Gross Pay for employee; enter a formula in cell E4 to multiply Hourly Rate by Hours Worked.
- 11. Calculate the Social Security Tax (S.S Tax), which is 6% of the Gross Pay; enter a formula in cell F4 to multiply Gross Pay by 6%.
- 12. Calculate the Net Pay; enter a formula in cell G4 to subtract Social Security Tax from Gross Pay.
- 13. Set the work sheet vertically and horizontally on the page.
- 14. Save your work.

- Using Formulas.
- ▶ Header and Footers.

	Α	В	С	D	E				
1	London Team Call Statistics								
2									
3	Name	No. calls	Hours Calls per worked Hour		Bonus				
4	Adam	42	5	?	?				
5	Jhon	6 4							
6	Jamse	39	6						
7	Alex	15	6						
8	Emma	2	7	→	→				
9									
10	TOTAL ?		?	?	?				
11									
12	Bonus Rate	25%							

- 1. Open a new workbook and save the file with the name "Call Statistics".
- 2. Delete Sheet 2 & 3, and rename Sheet 1 to (Call Statistics).
- 3. Enter the labels and values in the exact cells locations as desired.
- 4. Set the row height of rows 1 & 3 to size 30; and rows 4 until 10 to size 20.
- 5. Set labels alignment appropriately.
- 6. Use Warp Text, Orientation and merge cells as desired.
- 7. Apply border, gridlines and shading to the table as desired.
- 8. Format column E to include euro (€) sign with two decimal places.
- 9. Format cell B12 to include % sign with 0 Decimal places.
- 10. Calculate the Calls per Hour, enter a formula in cell D4 to divide numbers of calls by Hours worked. Using AutoFill, copy the formula to the remaining cells.
- 11. Calculate the Bonus. Enter a formula in cell E4 to multiply 'Calls per Hours' by the fixed Bonus Rate in cell B12. Using AutoFill, copy the formula to the remaining cells.
- 12. Calculate the 'TOTAL'.
- 13. Set the worksheet vertically and horizontally on the page.
- 14. Create a header that includes your name in the left section, and your ID number in the right section. Create the footer that includes the current Date in the center.

Objectives:

- Number, Commas and Decimal numeric formats.
- Working with Formulas (Maximum, Minimum, Average, Count and Sum).
- ▶ Percentage Numeric Formats.

	А	В	С	D	E	F				
1	Panda EST									
2	Monthly Sales Report - July									
3										
4	Emp. No.	Name	Salary	Sales Amount	Comission	Total Salary				
5	S101	Ahmed	1600	2500	?	?				
6	S105	Hassan	1800	3000						
7	S112	Ali	1500	2200						
8	S107	Waleed	2000	4500						
9	S110	Mohammed	1700	3500						
10	S103	Samir	1600	2500						
11										
12		Totals	?	?	?	?				
13		Average	?	?	?	?				
14		Highest	?	?	?	?				
15		Lowest	?	?	?	?				
16		Count	?							

- 1. Create the worksheet shown above.
- 2. Set the **column widths** as follows: Column A: 8, Column B: 14, Columns C & D: 15, Columns E & F: 14.
- 3. Enter the formula to find COMMISSION for the first employee.

 The commission rate is 2% of sales, **COMMISSION = SALES * 2%**Copy the formula to the remaining employees.
- 4. Enter the formula to find TOTAL SALARY for the first employee where:

TOTAL SALARY = SALARY + COMMISSION

Copy the formula to the remaining employees.

- 5. Enter formula to find **TOTALS**, **AVERAGE**, **HIGHEST**, **LOWEST**, and **COUNT** values. Copy the formula to each column.
- 6. Format numeric data to include **commas** and **two decimal places**.
- 7. Align all column title labels horizontally and vertically **at the center**.
- 8. Create a **Header** that includes <u>your name</u> in the left section, <u>page number</u> in the center section, and <u>your ID number</u> in the right section.
- 9. Create **footer** with <u>DATE</u> in the left section and <u>TIME</u> in the right section.
- 10. Save the file with name Exercise 3.

Objectives:

• Working with the IF Statement.

	А	В	С	D	E	F	G
1	ITEM NO.	NO. OF	ITEM PRICE	TAX	TOTAL PRICE BEFORE TAX	TOTAL PRICE AFTER TAX	RATE
2	100	115	30				
3	101	256	12				
4		49	56				
5		23	150				
6		840	5				
7		200	56				
8		294	300				
9		4	90				
10							
11	Count of items		?				
12	Average of tax		?				
13	Min ITEM PRICE		?				
14	Max ITE	M PRICE	?				

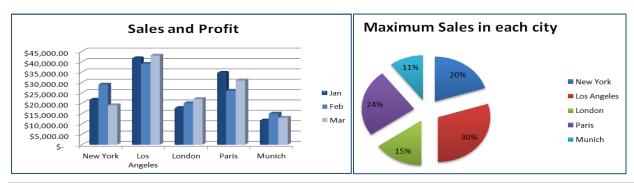
For the above table find the following:

- 1. TAX (If ITEM PRICE is less than 100, TAX is 50, otherwise it should be 100).
- 2. TOTAL PRICE BEFORE TAX =NO. OF ITEMS * ITEM PRICE.
- 3. TOTAL PRICE AFTER TAX = TOTAL PRICE BEFORE TAX + TAX.
- 4. RATE (If TOTAL PRICE AFTER TAX > 3500 then the rate is "HIGH", otherwise it is REASONABLE.
- 5. Find Count of Items, Average of Taxes, Min Item PRICE and Max Item PRICE.
- 6. Save file as Exercise 4.

- Working with Sum IF and Count IF statements.
- Inserting Charts.

	Α	В	С	D	Е	F	G			
	Salas and Profit Poport First Quarter 2012									
1	Sales and Profit Report - First Quarter 2012									
2	No	City	Jan	Feb	Mar	Average	Maximum			
3	C001	New York	\$22,000.00	\$29,000.00	\$19,000.00	?	?			
4	C002	Los Angeles	\$42,000.00	\$39,000.00	\$43,000.00	?	?			
5	?	London	\$18,000.00	\$20,000.00	\$22,000.00	?	?			
6	?	Paris	\$35,000.00	\$26,000.00	\$31,000.00	?	?			
7	?	Munich	\$12,000.00	\$15,000.00	\$13,000.00	?	?			
8		Total Sales	?	?	?					
9		Cost	\$83,000.00	\$84,000.00	\$43,000.00					
10		Profit	?	?	?					
11		10% Bonus	?	?	?					
12										
13		Total Sales greater than 30,000	?	?	?					
14		No Sales greater than 30,000	?	?	?					

- 1. Create the worksheet shown above.
- 2. Set the Text alignment, Columns width and high appropriately.
- 3. Use AutoFill to put the Series Numbers into cells A5:A7.
- 4. Format cells C3:G7, C8:E11, C13:E13 to include dollar sign with two decimal places.
- 5. Find the Average Sales and Maximum Sales for each City.
- 6. Find the Total Sales for each Month.
- 7. Calculate the Profit for each month, where profit = Total Sales Cost
- 8. Calculate the 10% Bonus, which is 10% of the Profit.
- 9. Find the Total Sales for each Month; only for sales greater than 30,000.
- 10. Find the No of Sales for each Month; only for sales greater than 30,000.
- 11. Create the following Charts:



- Working with Sum IF and Count IF statements.
- Inserting Charts.

	Α	В	С	D	Е	F		
1	USA Annual Purchases Report 2011							
2	Customer ID	Gender	City	Education	Annual Purchases	Annual Salary		
3	C11	М	New York	University	\$6,233	\$7,500		
4	C12	М	New York	High School	\$4,233	\$4,999		
5	1	F	Seattle	University	\$6,560	\$6,750		
6		М	Chicago	University	\$5,001	\$12,000		
7		F	New York	University	\$7,034	\$17,500		
8		F	Chicago	University	\$5,345	\$13,150		
9		F	Seattle	High School	\$790	\$3,799		
10		F	Seattle	None	\$240	\$2,150		
11		М	Seattle	University	\$4,300	\$22,450		
12	\forall	f	New York	None	\$232	\$2,500		
13								
14								
		Total						
		Annual		Annual Salary	Ge	nder		
15	City	Purchases						
16	New York	?		City	Male	Female		
17	Chicago	?		New York	?	?		
18	Seattle	?		Chicago	?	?		
19				Seattle	?	?		
20	Education	Average Annual Purchases						
21	University	?						
22	High School	,						
23	None	,						
24	NOTIC	:						
25	Gender	Population						
26	Male	?						
27	Female	?						
21	remate	:						

- 1. Open a new workbook and create the above worksheet.
- 2. Make sure that your worksheet looks like the picture (Alignment, Shedding, Borders, Wrap text, Orientation ...).
- 3. Find the entire customer IDs.
- 4. Format Colum E & D to Currency with dollar sign and two decimal places.
- 5. Find the Total Annual Purchases for each City.

- 6. Find the Average Annual Purchases for each Education.
- 7. Find the total number of customers from each gender.
- 8. Find the total annual salary for each gender in each city.
- 9. Create the following Chart:



