

Final Assessment - Data Science With Ms Excel

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1.) Charts is the graphical representation of the data, it helps to interpret the complex data in simplified way possible.

Types of charts

- 1.line chart
- 2.bar,coloumn chart
- 3.pie chart
- 4.surface chart
- 5.treemap chart.

2.) Pivot table is the tool used to obtain a report of the data. By reorganising and summarising the column and rows in a new worksheet.

To implement the pivot table

- 1.Select the worksheet range thats has required data
- 2.click insert tab
- 3.select pivot table
- 4.mention whether to create pivot table in existing worksheet or in a new worksheet
- 5.click create pivot table.

3.) Conditional formatting used to format a cell or range of cell in the worksheet based on the pre-set condition. It helps user to identify the important cell faster

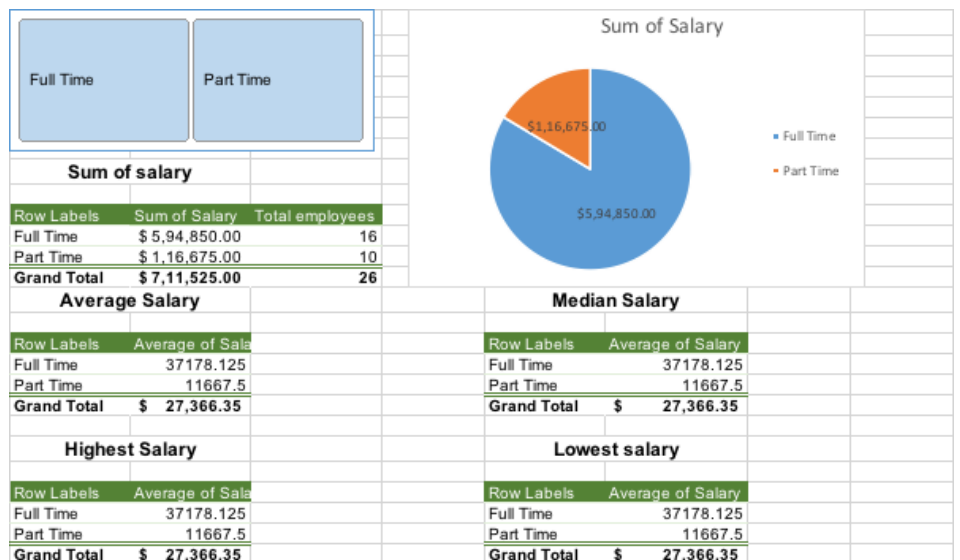
- 1.Data bars , it is used to add colour to the cell which indicate how large or small the cell values to the other cells in the worksheet.
- 2.Colour scales-It is used to give colour for cells ,where colour represents the value in a cell, it differentiate the important cells from other.
- 3.Highlight cells with value Greater or less than a specified given condition of the number data, for example red colour for less and green for greater value.
- 4.Highlighting Top,bottom ,it highlights the top and bottom value of the worksheet based on preset condition.
- 5.Highlighting Errors and blank cell, it is used to highlight the cell in the given worksheet indicating the errors and the blank cell of the worksheet.

4).To clear formatting in a cell without removing its content

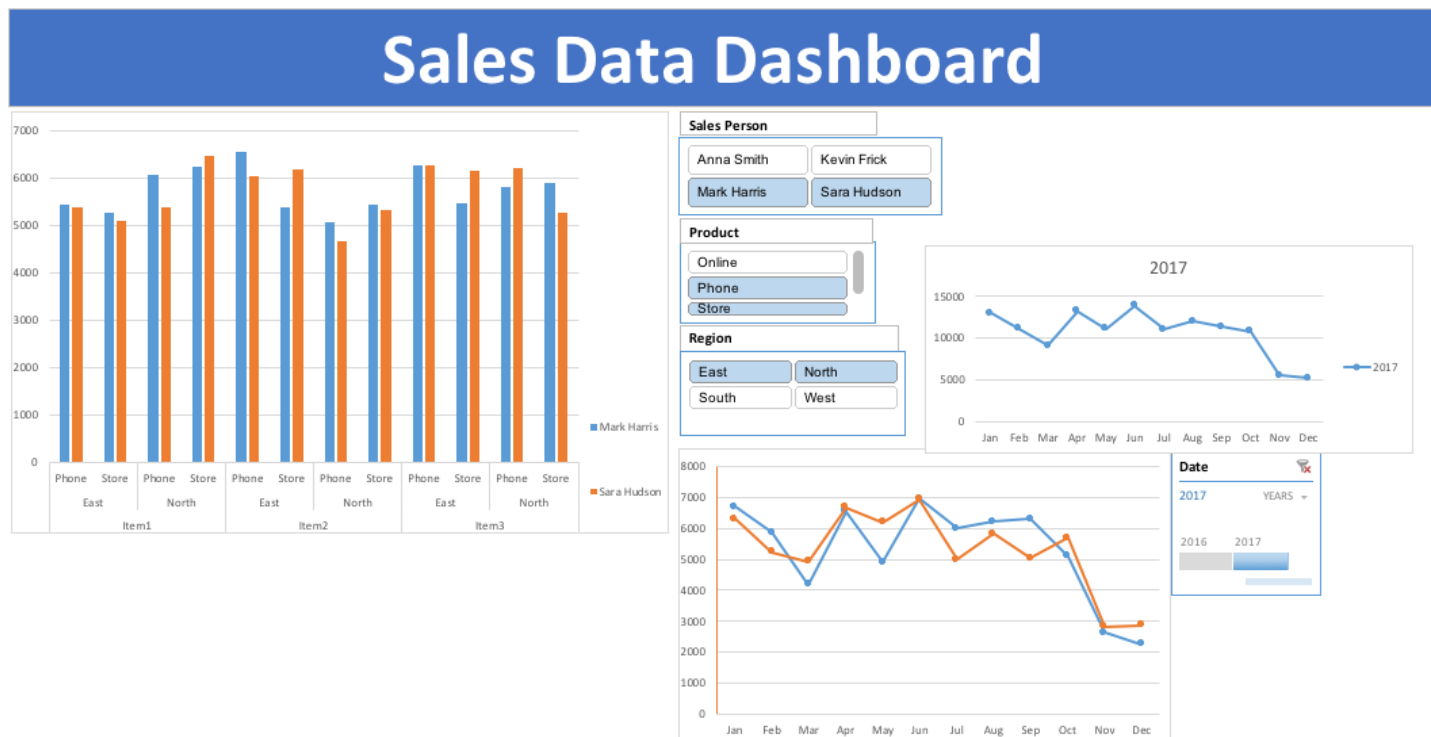
Click home tab, And click on clear icon, select clear formats.

5). Pivot Table and Chart For Given Data

Last Name	First Name	Status	Salary
Williams	Mary	Full Time	\$ 35000
Brown	Robert	Full Time	\$ 32000
Wilson	Elizabeth	Part Time	\$ 12000
Moore	Jennifer	Full Time	\$ 41000
Brown	Charles	Full Time	\$ 39000
Price	Lisa	Part Time	\$ 14000
Wood	Daniel	Part Time	\$ 13750
Coleman	Donald	Full Time	\$ 37500
p	Geor	Part Time	\$ 12050
Steele	Donna	Full Time	\$ 36750
Schultz	Carol	Full Time	\$ 38050
Munoz	Ruth	Part Time	\$ 11000
Chandler	Jason	Full Time	\$ 29000
Small	Matthew	Full Time	\$ 45500
Hensle	Jessica	Full Time	\$ 52000
Brown	Gary	Part Time	\$ 8000
Grimes	Jose	Part Time	\$ 17000
Baxter	Brenda	Full Time	\$ 36000
Morin	Frank	Full Time	\$ 36500
Tillman	Kathleen	Part Time	\$ 9750
Huber	Joshua	Full Time	\$ 31750
Bo e	Debra	Full Time	\$ 38050
Buckner	Jerry	Full Time	\$ 37500
Knowles	Aaron	Part Time	\$ 10050
Velazquez	Carlos	Part Time	\$ 9075
Vang	Marilyn	Full Time	\$ 29750



6). Dashboard for Given Spreadsheet .xls file



7.) Statistics is the set of mathematical tool which is used to analyse, organise, interpret the collected data and arriving conclusions of the sample data.

8.) Analysis tools pack can be added by click file and addin and analysis toolpack.

1. Regression is the statistical tool to relate a dependant variable to one or more independent variables, it is the analysis tool used to forecast by finding the relationships of data in the worksheet.

Regression formula $Y_i = F(X_i, B) + e_i$

Y_i is the dependent variable
 X_i is the independent variable
 F is the function
 B is the other elements
 e_i is the error factors

2. Moving average is used to determine the average of the rolling iteration data by the average function. It is a calculation to analyse the data points by creating a series of averages of different subsets in the worksheet. Its is used in demand forecasting and determining the trend.

Simple moving average = $(A_1 + A_2 + \dots + A_n) / n$
 A_1 is the average of first data
 A_2 is the average of second data
 A_n is the average of nth data
 N is the total number of data.

9.) Histogram is the graphical representation of the data as the bar graph or column chart shows frequency of occurrence of the data in a range. it represents the range of outcome into columns formations along the x axis, the frequency of occurrence of the data is represented by the y axis .

1. Its is used to visualize the data distributions.

2. In excel it can be accessed by clicking the data tab, data analysis icon, analysis tools, Histogram.