Final Assessment Submission

1. 1)What are charts and Different Types of Charts?

    Answer:

    - A Chart is a tool
    - It is used to show the data graphically
    - Visual representation for understanding datas

    Types Of Chart :

    1. Line Chart
    2. Bar Chart
    3. Area Chart
    4. Surface chart
    5. Stock Chart

2. What are pivot Tables in Excel and their implementations?

    Answer:

    - Pivot Table is a Statistics tool
    - It is used to quickly analyze large level of data
    - Used to sort, group, total, count, average data stored in a table

    Types of pivot table

    - Compact
    - Outline
    - Tabular Form

    Implementation of Pivot Table :

    - Select any cell in the source data table.

- On the Ribbon, click the Insert tab.
- In the Tables group, click Recommended PivotTables.

3. What is Conditional Formatting? Distinguish 5 types of Conditional Formatting?

Answer:

- Conditional Formatting is a specialized formatting in cell in the spreadsheet
- It is used to
  - Highlight data
  - Emphasize data
  - Differeciate among the data
- It is used change the appearance of the cell

There are 5 types of conditional formatting visualizations available:

- ✓ Background Color Shading (of cells)
- ✓ Foreground Color Shading (of fonts)
- ✓ Data Bars
- ✓ Icons (which have 4 different image types)
- ✓ Values

4. How to Clear Formatting in Excel without actually removing the Cell Content?

Answer:

- Remove Formatting from Selected Cells
  - go to Home > Editing > clear and select Clear Formats

- Keyboard Shortcut to Remove Formatting- ALT+H+E+F
- Remove Formatting from Entire Dataset
  - go to Home > Editing > clear and select Clear Formats.
- Remove Formatting From Blank Cells
  - Press F5, goto special, select blanks
  - Go to Home > Editing > clear and select Clear Formats
- Remove Specific Cells' Formatting without Removing Contents
  - First, Go to Home > Editing > Find and Select > Find
  - After, Format box in the Find and Replace window
  - Go to the Fill tab and select the color of the cells from where you want to remove formatting
  - select all the cells from the list
  - After that, go to Home > Editing > clear and select Clear Formats.
- Remove Conditional Formatting without Removing Contents
  - select your entire dataset
  - Go to Home > Conditional Formatting > Clear Rules and select Clear Rules from Selected Cells

5. Create a Pivot Table and Chart for the Given Table?

Answer:

Attached Below

6. Dashboard

Attached below

7. Define Statistics?

Answer :

- Statistics is the mathematical process
- It is used for Data analysis in excel
- Analysis ToolPack - option

Statistics is a collection of methods for collecting, displaying, analyzing, and drawing conclusions from data.

Some Statistical function in excel

- ABS   The absolute value of a number
- AVERAGE The average or arithmetic mean for a group of numbers
- COUNT   The number of cell locations in a range that contain a numeric character
- COUNTA   The number of cell locations in a range that contain a text or numeric character
- MAX The highest numeric value in a group of numbers
- MEDIAN   The middle number in a group of numbers (half the numbers in the group are higher than the median and half the numbers in the group are lower than the median)
- MIN The lowest numeric value in a group of numbers
- MODE   The number that appears most frequently in a group of numbers
- PRODUCT The result of multiplying all the values in a range of cell locations
- SQRT   The positive square root of a number

- o STDEV.S   The standard deviation for a group of numbers based on a sample
- o SUM The total of all numeric values in a group

8. Explain about any two Data Analysis Tool Pak?

Answer:

Anova

This example teaches you how to perform a single factor ANOVA (analysis of variance) in Excel. A single factor or one-way ANOVA is used to test the null hypothesis that the means of several populations are all equal.

Below you can find the salaries of people who have a degree in economics, medicine or history.

$H0: \mu1 = \mu2 = \mu3$

H1: at least one of the means is different.

Anova in Excel

	A	B	C	D
	economics	medicine	history	
1				
2	42	69	35	
3	53	54	40	
4	49	58	53	
5	53	64	42	
6	43	64	50	
7	44	55	39	
8	45	56	55	
9	52		39	
10	54		40	
11				

Result :

E	F	G	H	I	J	K
Anova: Single Factor						
SUMMARY						
Groups	*Count*	*Sum*	*Average*	*Variance*		
Column 1	9	435	48.33333	23.5		
Column 2	7	420	60	32.33333		
Column 3	9	393	43.66667	50.5		
ANOVA						
Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Between Groups	1085.84	2	542.92	15.19623	7.16E-05	3.443357
Within Groups	786	22	35.72727			
Total	1871.84	24				

F-Test

- On the Data tab, in the Analysis group, click Data Analysis. ...
- Select F-Test Two-Sample for Variances and click OK.
- Click in the Variable 1 Range box and select the range A2:A7.
- Click in the Variable 2 Range box and select the range B2:B6.
- Click in the Output Range box and select cell E1.
- Click OK.

9. Explain about Histogram?

Answer :

The histogram is a popular graphing tool. It is used to summarize discrete or continuous data that are measured on an interval scale. It is often used to

illustrate the major features of the distribution of the data in a convenient form.

Create a histogram in Excel

- Make sure you load the Analysis ToolPakto add the Data Analysis command to the Data tab.
- On a worksheet, type the input data in one column, and the bin numbers in ascending order in another column.
- Click Data > Data Analysis > Histogram > OK.