ASSIGNMENT

ON.

FINAL ASSESSMENT.

COURSE : DATA SCIENCE WITH EXCEL.

CENTRE : UNIFY CSC ACADEMY DEMTHRING SHILLONG.

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1 What are charts and different types of charts?

Ans A chart is a graphical representation of data in a worksheet. It helps to provide a better understanding of large quantities of data. Charts make it easier to draw a comparison and see growth and relationship among the values and trends in data.

The different type of charts are:-

① Bar chart
② Line chart
③ pie chart
④ Scattered plot chart
⑤ spider chart or raddar chart.

① Bar chart → Bar chart are one of the most common data accross categories, highlight differences, show trends and outliers.

② Line chart → The line chart, or line graph, connects several distinct data point presenting them as one continuous evolution. use line chart to view trends in data, usually overtime. e.g stock prices.

③ pie chart → pie chart are powerful for adding detail to other visualization it give a quickly and accurately compares information of data percentages.

④ Scattered plot chart → Scatter plot are an affective way to investigate the relationship between different variable showing. If one variable is a good predictor of another, or if they Tend to change independently.

⑤ Spider chart or radar chart -> Spider and radar chart are also known as web charts, star chart, or polar chart. If you have a large set of different data group by using spider and radar chart are batter than column ones. The radar chart is useful for showing multiple data group in term of 2D diagram. atleaste three variable on exes.

2 What are pivot tables in excel and their implementations?

Ans A pivot Tables excel are one of ~~excel's~~ the most powerful features. A pivot tables allow you to extract the significance from a large, detailed data set.

A pivot tables is a quickly summarize large amounts of data. we use a pivot tables to analyzed numerical data in detail, and answer unanticipated questions about your data. A pivot Tables is especially designed for overging large amounts of data in many user.

A pivot table is a powerful tool that uses to implement in calculation summarize, and analyze data that use a comparisons, patterns, and trends in dashboard format.

3 What is conditional formatting? Distinguish five types of conditional formatting?

Ans Conditional formatting in Excel enables to highlight cell with a certain color, depending on the cell's value.

It enables to apply special formatting to cells in a spreadsheet that meet certain criteria.

There are five types of conditional formatting are :-

① Background color shading
② Icons
③ Data bar
④ value
⑤ manage conditional formatting rules

① Background color shading → The background color shading is a considered a format of cell. So is to make sure the worksheet is protect and allow changes.

② Icons → An icons set to amolate and classify data into five categories seperated by a threshold value. Each icons represents a range values. for e.g in the three arrow icons set, the green up arrows represents higher value, the yellow sideway arrow represents middle value, and the red down represents lower value.

(3) Data bar → A data bar help to see the value of a cell relative to other cell. The length of the data bar represents the value in the ~~same~~ sense. A longer bar represents a higher value and a shorter bar represents a lower value.

(4) value → Value is use to find a specific cell format using a comparison operator to find the highest and lowest value in a range of cell that are based on a cutoff values specified

(5) Manage conditional formatting rules → It is use to set up rules that excel to determine when to apply the conditional formatting.

4 How to clear formatting in excel without actualy removing the cell content?

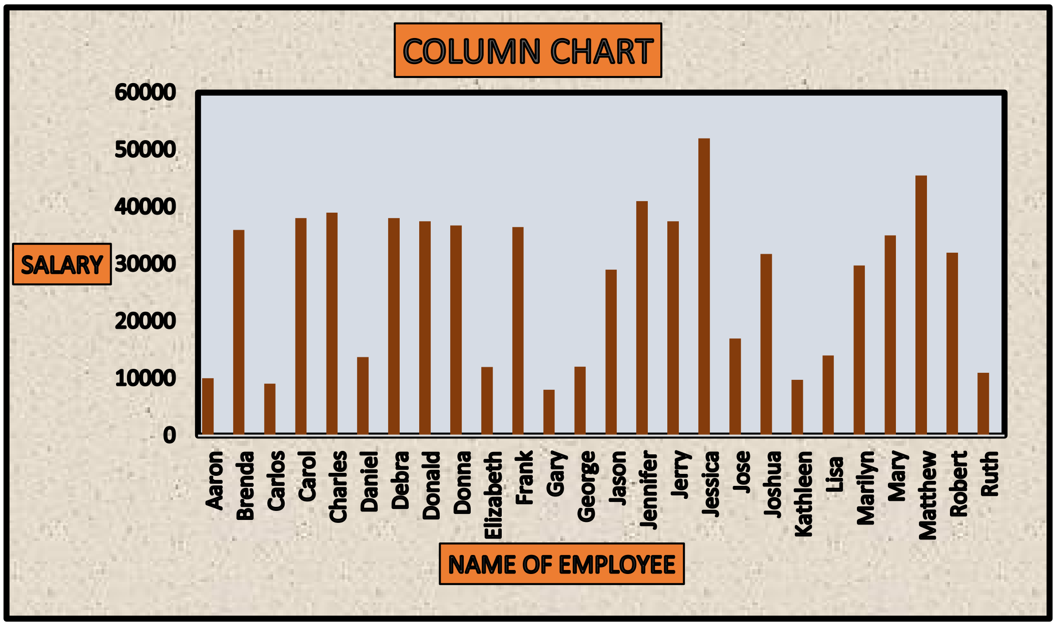
Ans To clear formatting in excel is highlight the portion of the spreadsheet from which you want to remove formatting by click the hometab and select conditional formatting select clear rules.

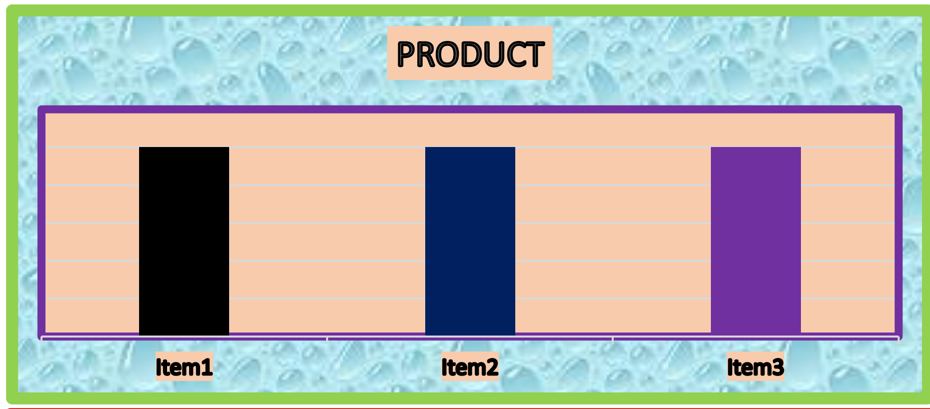
5)Create a Pivot Table and Chart for the Given Table?

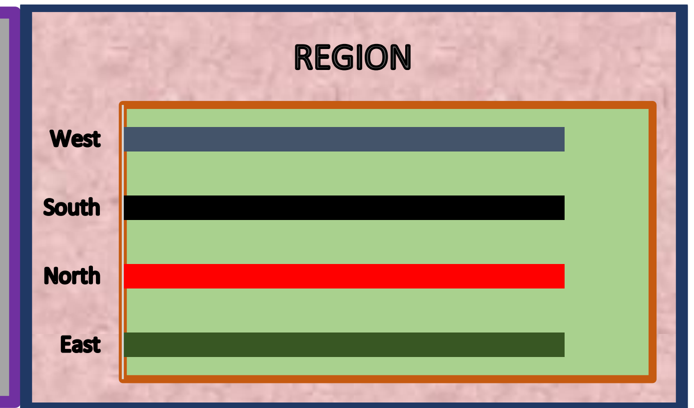
EMPLOYEE DETAILS			
LAST NAME	FIRST NAME	STATUS	SALARY
Baxter	Brenda	Full time	₹ 36,000.00
Boyle	Debra	Full time	₹ 38,050.00
Brown	Robert	Full time	₹ 32,000.00
Brown	Charles	Full time	₹ 39,000.00
Buckner	Jerry	Full time	₹ 37,500.00
Chandler	Jason	Full time	₹ 29,000.00
Coleman	Donald	Full time	₹ 37,500.00
Hensley	Jessica	Full time	₹ 52,000.00
Huber	Joshua	Full time	₹ 31,750.00
Moore	Jennifer	Full time	₹ 41,000.00
Morin	Frank	Full time	₹ 36,500.00
Schultz	Carol	Full time	₹ 38,050.00
Small	Matthew	Full time	₹ 45,500.00
Steele	Donna	Full time	₹ 36,750.00
Vang	Marilyn	Full time	₹ 29,750.00
William	Mary	Full time	₹ 35,000.00
Brown	Gary	Part time	₹ 8,000.00
Grimes	Jose	Part time	₹ 17,000.00
Knowles	Aaron	Part time	₹ 10,050.00
Munoz	Ruth	Part time	₹ 11,000.00
Perry	George	Part time	₹ 12,050.00
Price	Lisa	Part time	₹ 14,000.00
Tillman	Kathleen	Part time	₹ 9,750.00
Velazquez	Carlos	Part time	₹ 9,075.00
Wilson	Elizabeth	Part time	₹ 12,000.00
Wood	Daniel	Part time	₹ 13,750.00

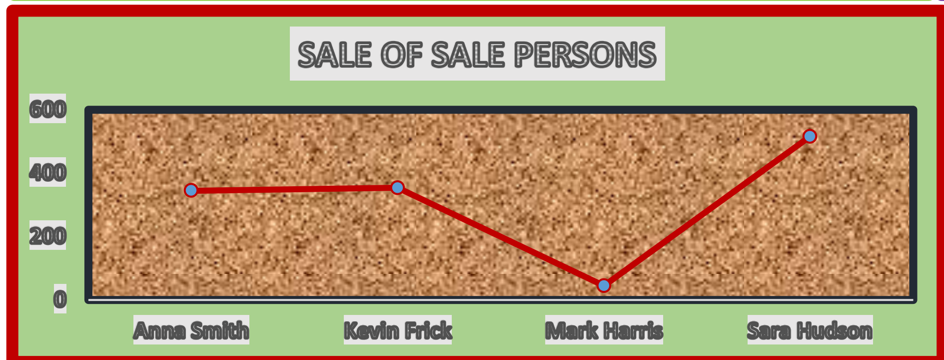
PIVOT TABLE FOR SALARY

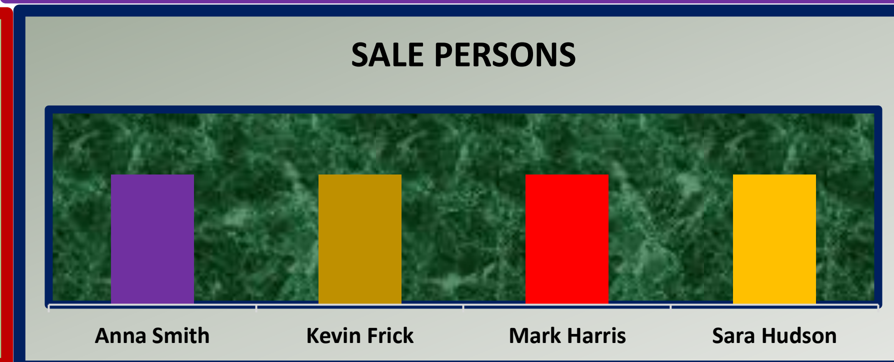
Row Labels	Sum of SALARY	Count of SALARY2
Aaron	10050	1
Brenda	36000	1
Carlos	9075	1
Carol	38050	1
Charles	39000	1
Daniel	13750	1
Debra	38050	1
Donald	37500	1
Donna	36750	1
Elizabeth	12000	1
Frank	36500	1
Gary	8000	1
George	12050	1
Jason	29000	1
Jennifer	41000	1
Jerry	37500	1
Jessica	52000	1
Jose	17000	1
Joshua	31750	1
Kathleen	9750	1
Lisa	14000	1
Marilyn	29750	1
Mary	35000	1
Matthew	45500	1
Robert	32000	1
Ruth	11000	1
Grand Total	712025	26


COLUMN CHART
SALARY
60000
50000
40000
30000
20000
10000
0
Aaron
Brenda
Carlos
Carol
Charles
Daniel
Debra
Donald
Donna
Elizabeth
Frank
Gary
George
Jason
Jennifer
Jerry
Jessica
Jose
Joshua
Kathleen
Lisa
Marilyn
Mary
Matthew
Robert
Ruth
NAME OF EMPLOYEE









Sales Person

Anna Smith | Kevin Frick | Mark Harris | Sara Hudson

7 Define statistics ?

Ans Statistics function apply a mathematical process to a group of cells in a worksheet.

The sum function is used to add the values contained in a range of cells. A list of commonly used statistical functions. function are more efficient than formula when you are applying a mathematical process to a group of cells.

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8 Explain about any Two Data Analysis Toolpak ?

Ans The data analysis Toolpak is a build-in add-in program that offers data analysis tools for various financials, statistical and engineering problem.

The Two data analysis tool pak are :-

① Correlation → Correlation determine the degree to which Two paired variable are in relationship to each other.

② Covariance → Covariance measures the change in one variable who the other viriable changes. covariance can be positive or negative.

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9 Explain about Histogram ?

Ans A histogram is a bar graph-like representation of data that buckets a range of outcome into column along the x-axis the y-axis represent the number counts or percentage of occurences in the data for each column and can be used to visualize data distribution.