

FINAL ASSESSMENT

FOR

DATA SCIENCE WITH EXCEL

SUBMITTED BY---PHILAKHAMTI
KHARKONGOR

CENTRE--UNIFY CSC ACADEMY
DEMTHRING,
SHILLONG: 793021

Q1) What are charts and Different Types of chart

Ans: A chart is a powerful tool that allows you to visually display data in variety of different charts formats such as Bar, Column, Pie, Line, Area, Doughnut or surface charts.

There are various charts in Excel such as Column charts, Bar chart, Area chart, Line chart, Surface chart, Scatter chart, Pie chart, Doughnut chart, Stock chart and Radar chart.

Q2) What are pivot tables in Excel and their implementations?

Ans: A pivot table is a static tool that summarizes and recognizes selected columns and rows of data in a spreadsheet.

on database table to obtain a desired report.

Implementation of Pivot Table

- 1) Select the cells you want to create a Pivot Table from.
- 2) Select Insert > Pivot Table
- 3) This creates a Pivot Table based on an existing table or range
- 4) Choose where you want the Pivot Table report to be placed. Select New Worksheet to place the Pivot Table in a new worksheet or Existing Worksheet and select where you want the new Pivot Table to appear.
- 5) Select Ok.

Q3) what is Conditional Formatting ? Distinguish
5 Types of Conditional Formatting .

Ans: Conditional Formatting makes it easy to highlight certain values or make particular cells easy to identify . This changes the appearance of a cell range based on a condition (or criteria) .

5 Types of Conditional formatting in Excel

1) Format cells that are greater than or less than a number .

In this example , we format all the cells that contain a test score greater than 75 .

- Select the cell range that contains the test scores .

- Click the Home Tab .
- Click Conditional Formatting
- Click Greater Than
- Enter the number 75
- Select a formatting option .

- Click OK.

Excel will format the cells that contain a test score of 75 or above.

2) Format cells that contain text.

- Select a column.
- Click the Home Tab.
- Click Conditional Formatting.
- Click Highlight Cells Rules.
- Click Text that Contains.
- Enter the text ' '.
- Select formatting option.
- Click OK.

3) Format only Top or bottom ranked values.

Example : I want to find which student rank in the top 10 for history subject.

- Select the History column.
- Click the Home Tab.
- Click Conditional Formatting.
- Click Top / Bottom Rules.
- Click Top 10 ?.

- Use the scroll arrows to adjust the percentage required.

4) Format cells using data bars.

- Select a range of cells
- Click the Home Tab.
- Click Conditional Formatting
- Click Data Bars.

5) Format cells using colour scales

- Select a range of cells.
- Click the Home Tab.
- Click Conditional Formatting
- Click colour scales.

Q4) How to clear formatting in Excel without actually removing the cell content?

Ans: 1) First select the cells from where you want to remove formatting.

2) Then, go to Home > Editing > Clear and select Clear Formats.

Now, you will see the formatting of the selected cells has been removed but the contents are still there.

Q7) Define Statistics.

Ans: Statistics is a branch of mathematics for collecting, analysing and interpreting data.

Q8) Explain about any two data analysis toolpak.

Ans: Two types of data analysis toolpak are:-

1) Correlation in Excel :

Correlation is a statistical measure analysed in Analysis Toolpak Excel Add-in. It shows the extent to which two or more variables fluctuate together.

2) Rank and Percentile in Excel

Percentile in excel is a number where a certain percentage of scores fall below that number and is available in the Analysis Toolpak Excel add-in.

Q9) Explain Histogram

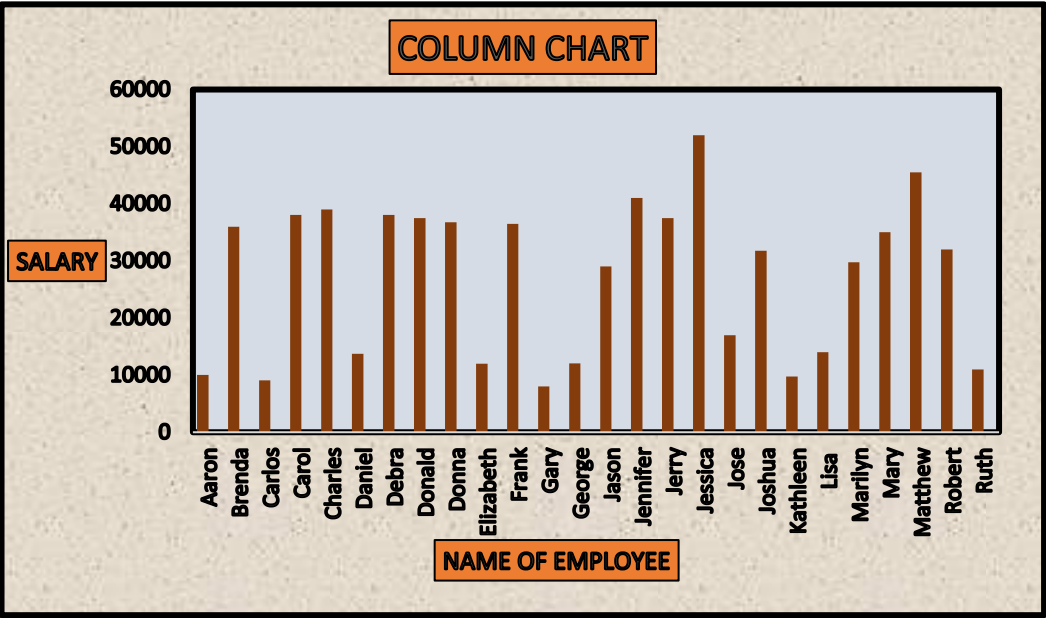
Ans: A histogram is a graph used to represent the frequency distribution of few data points of one variable.

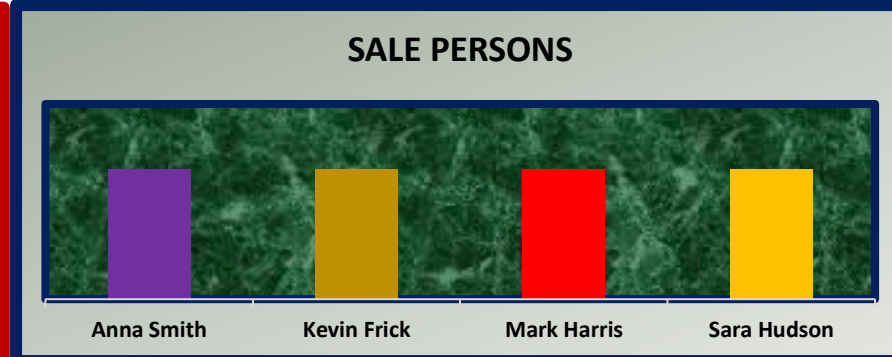
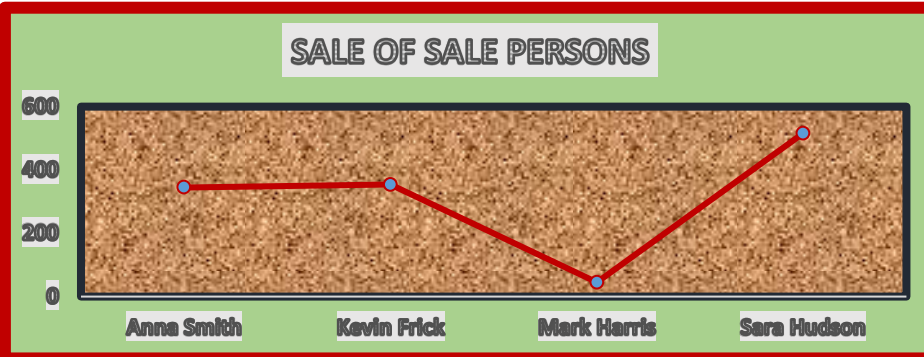
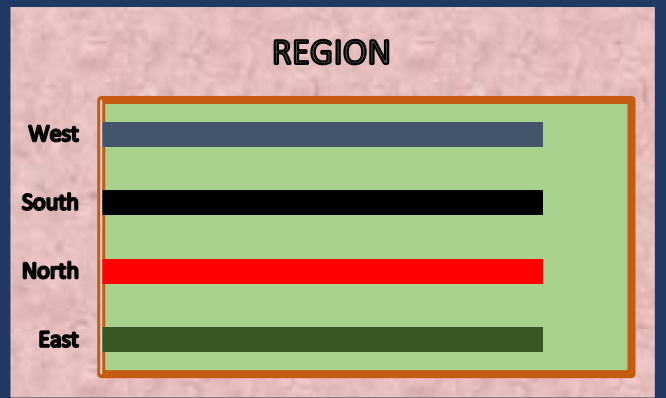
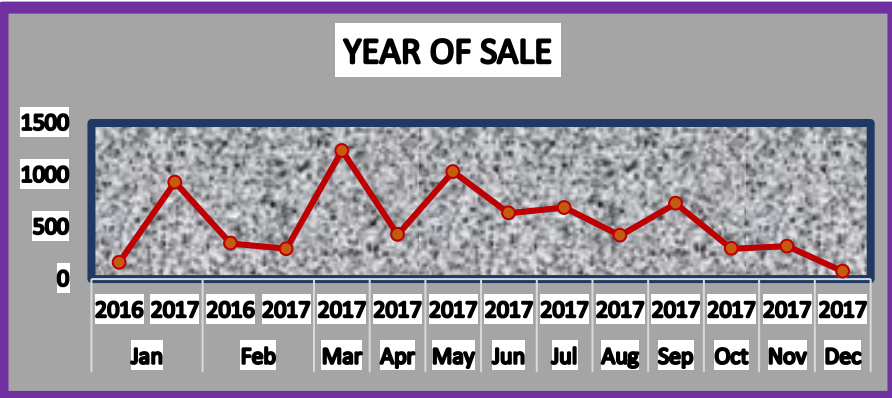
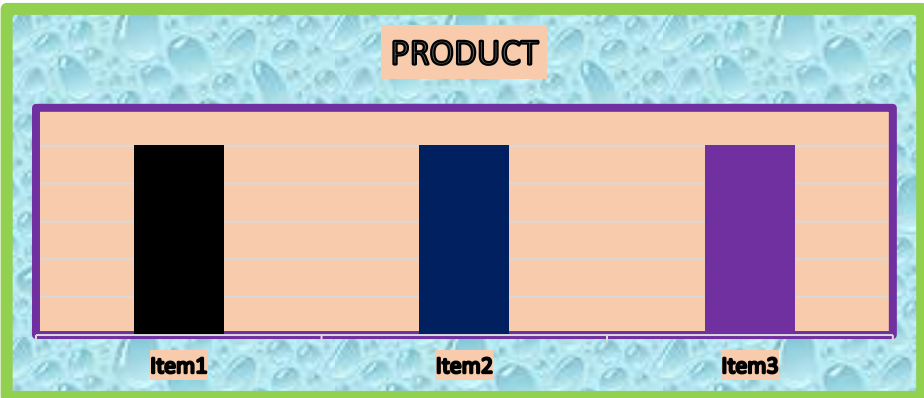
5) Create a Pivot Table and Chart for the Given Table?

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





Sales Person			
Anna Smith	Kevin Frick	Mark Harris	Sara Hudson