

DATA SCIENCE WITH EXCEL

Final Assessment

1) What are charts and Different Types of Charts?

A chart is a graphical representation for data visualization, in which the data is represented by symbols.

Type of Charts

- | | |
|------------------|-------------------|
| ① Bar Chart | ⑪ Waterfall Chart |
| ② Line chart | ⑫ Radar |
| ③ Pie Chart | ⑬ Stock chart |
| ④ Histogram | ⑭ Bullet chart |
| ⑤ Column chart | ⑮ Area chart |
| ⑥ Heatmap | ⑯ Gantt Chart |
| ⑦ Scatter chart | |
| ⑧ Bubble Chart | |
| ⑨ Pivot chart | |
| ⑩ Doughnut chart | |

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

Pivot Table is a summary of your data. A Pivot Table is a powerful tool to calculate, summarize and analyze data that lets see comparisons, patterns and trends in your data. It is used in cases where there are numerical data, rows and columns in your Pivot Table.

Implementations - Some uses of Pivot tables are related to the analysis of questionnaires with optional responses but some implementations of pivot tables do not allow these use cases.

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

Conditional Formatting is a popular tool in Excel that allows adding a different format to the cells per their conditions. Conditional Formatting makes it easy to highlight values and cells easy to identify.

Types of Conditional Formatting

1. Highlight Cell Values -: Conditional Formatting to highlight cells with specific values.
2. Data Bars -: Conditional Formatting allows to add visual data bars to the cells.
3. Colour Scales -: Add different colour scales to data set using this function.
4. Icon sets -: Conditional formatting data add to your dataset is Icon sets. Always choose from directional icons, shapes, indicators and ratings.
5. Specific Range -: Conditional Formatting to highlight values in a specific range.

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

To clear only the formats that are applied to the selected cells, click clear formats. To clear only the contents in the selected cells, leaving any formats and comments in place, click clear contents. Clear formats option is to the Quick Access toolbar or Excel ribbon. Excel clear formatting feature can easily remove formats not only from a single cell, but also from an entire row, column or worksheet. Clear Formatting in Excel this option remove only selected cell.

7) Define Statistics?

Statistics is the study of the collection and organization of data. In other words, it is a mathematical tool to collect summarize data. Statistics is the most important role play in mathematics. These are some most common and useful functions, like Average, Count, Sum, Min, Max, etc. Statistical functions are used to apply a mathematical process to a particular cells in a worksheet. Statistics is a branch that deals with every aspect of the data. In mathematics, statistics concerns the collection of data.

8) Explain about any two Data Analysis Tool Pak?

Data Analysis Tool Pak

1. Correlation - Measure the degree of association between two variables. It is a common tool for describing simple relationships without making a statement about cause and effect.

2. Regression - Regression analysis, a powerful tool for data analysis, helps businesses. Regression analysis is a simple statistical method for understanding the relationship between two or more variables. It is useful tool pak in Data Analysis.

9) Explain about Histogram?

A Histogram is a graph used to represent the frequency distribution of a few data points of one variable. A histogram is a type of chart that shows the mathematical data. Histograms can help reveal patterns and trends in data. A histogram is used to check the shape of the data distribution. The histogram looks more similar to the bar graph. The bar height reflects the count of data points within each group. A histogram is basically just a bar chart.

Q. 5 Create a Pivot Table and Chart for the given Table?

Employee Details

Last Name	First Name	Status	Salary
Willams	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
Perry	George	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
Hensley	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
Boyle	Debra	Full Time	38050
Buckner	Jerry	Full Time	37500
Knowles	Aaron	Part Time	10050
Velazquez	Carlos	Part Time	9075
Vang	Marilyn	Full Time	29750

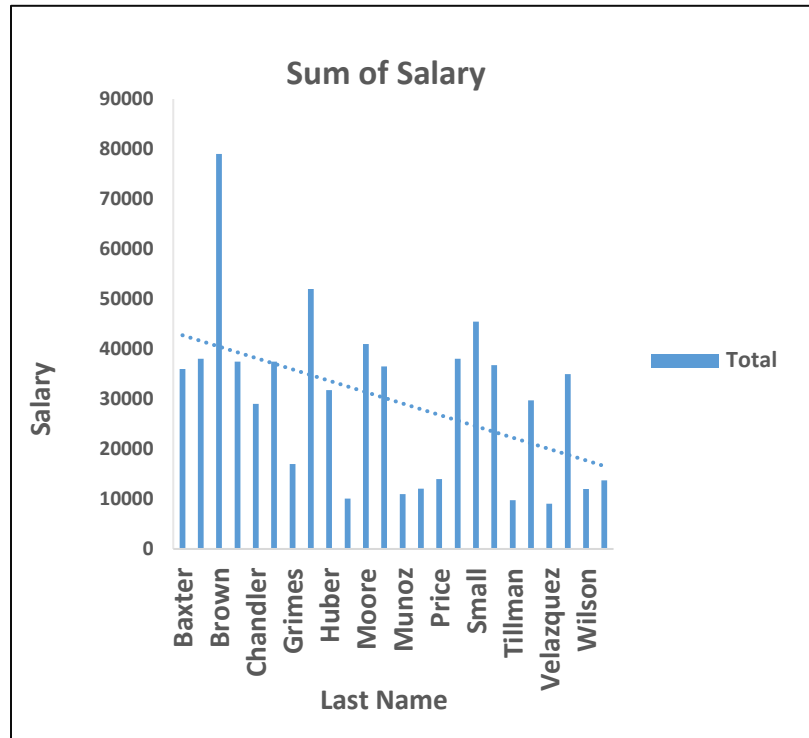
Ans.

Pivot Table

Status	(All)
--------	-------

Row Lables	Sum of Salary
Baxter	36000
sss	38050
Brown	79000
Buckner	37500
Chandler	29000
Coleman	37500
Grimes	17000
Hensley	52000
Huber	31750
Knowles	10050
Moore	41000
Morin	36500
Munoz	11000
Perry	12050
Price	14000
Schultz	38050
Small	45500
Steele	36750
Tillman	9750
Vang	29750
Velazquez	9075
Willams	35000
Wilson	12000
Wood	13750
Grand Total	712025

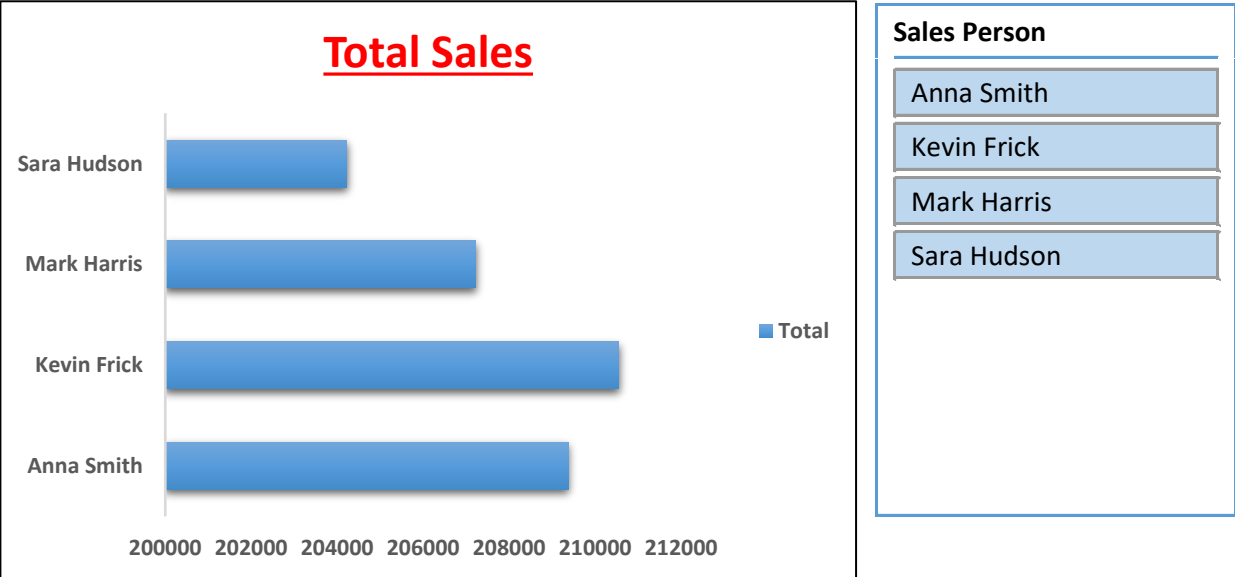
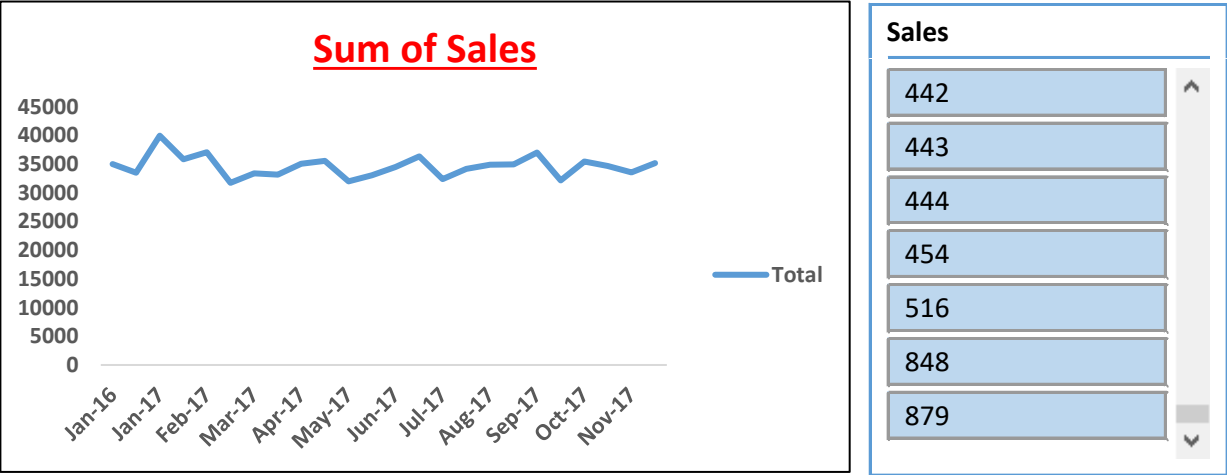
Pivot Chart

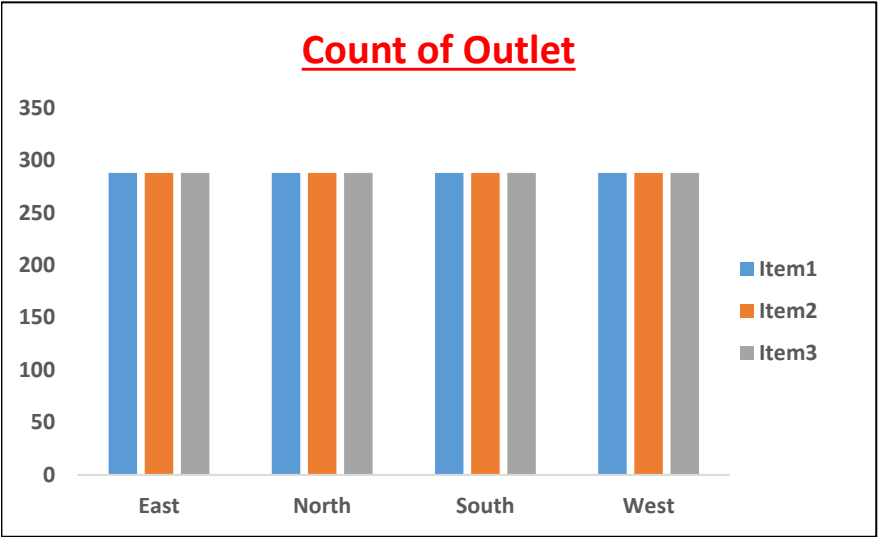


Q. 6 Create a Dashboard for the attached Excel Sheet.

Ans.

Dashboard





Region	
East	
North	
South	
West	

