

Experiment No. 1.4

Student Name: Parvinder Singh

Branch: MCA - CCD

Semester: III

Subject Name: Business Analytical Lab

UID: 22MCC20043

Section/Group: 22MCD-1/ Grp B

Subject Code: 22CAH-703

1. Aim/Overview of the practical:

- Analysis using charts and graphs, chart styles.
- Changing Chart layouts, add labels, axis options, chart title, legends, data labels
- Sharing worksheets and Workbooks using freezing panes.

	A	B	C	D	E	F	G	H
1	UID	Name	English	Mathematics	Physics	Chemistry	IT	Total
2	101	Sumit Rana	56	86	75	72	49	338
3	102	Karan Thakur	65	62	73	85	29	314
4	103	Manvi Sharma	85	35	45	65	67	297
5	104	Sagar Kumar	69	64	28	94	81	336
6	105	Jaspreet Kaur	54	57	65	35	38	249
7	106	Preetpal Singh	23	82	33	68	50	256
8	107	Harman	57	51	91	81	60	340
9	108	Simranjeet Kaur	50	24	29	52	94	249
10	109	Priya Sharma	86	69	71	27	42	295
11	110	Lovepreet Singh	63	58	46	45	64	276
12	111	Komal Sharma	30	35	55	95	57	272
13	112	Kuljeet Singh	37	64	42	86	49	278
14	113	Aman Choudhary	24	82	66	35	83	290
15	114	Priyanshu Kumar	59	95	39	62	39	294
16	115	Mandeep Singh	55	52	54	91	67	319

2. Code for experiment/practical:

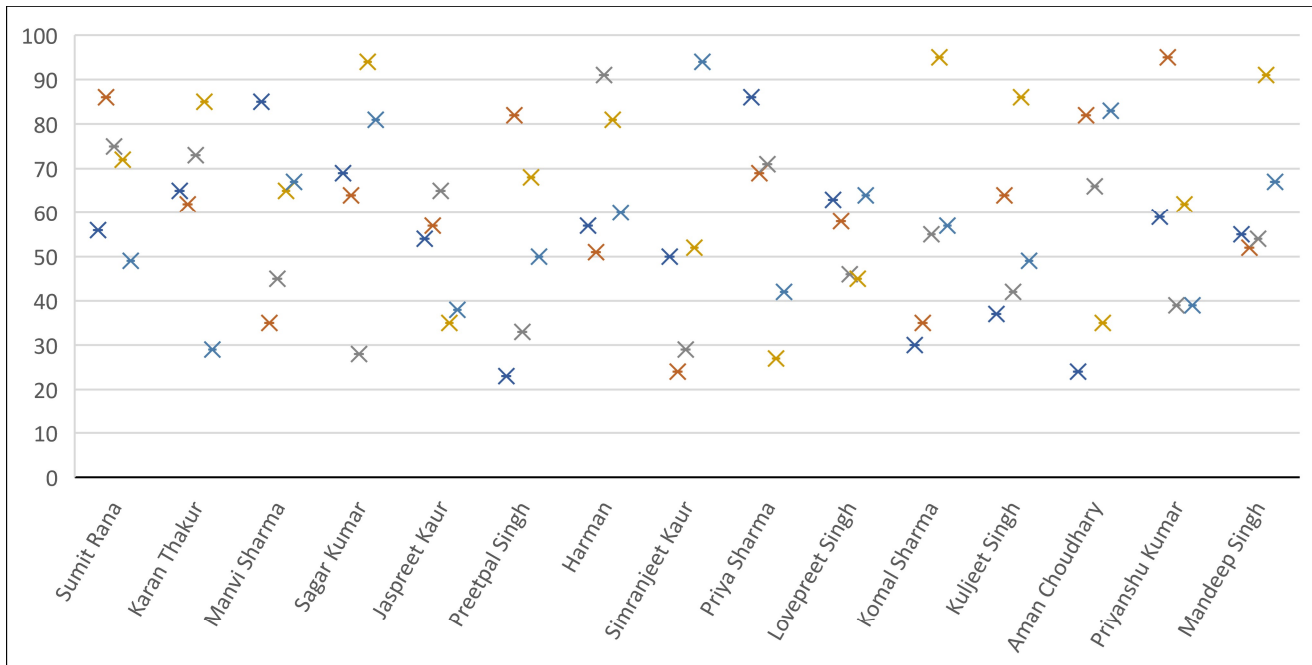
a) Analysis using charts and graphs, chart styles.

Charts and graphs are powerful tools for data analysis and visualization. They can help us to identify trends, patterns, and relationships in data that would be difficult or impossible to see with the naked eye.

- Select the data for which you want to create a chart.
- Click INSERT > Recommended Charts.

- On the Recommended Charts tab, scroll through the list of charts that Excel recommends for your data, and click any chart to see how your data will look.
- If you don't see a chart you like, click All Charts to see all the available chart types.
- When you find the chart you like, click it > OK.
- Chart or Graph inserted Successfully.

Result:




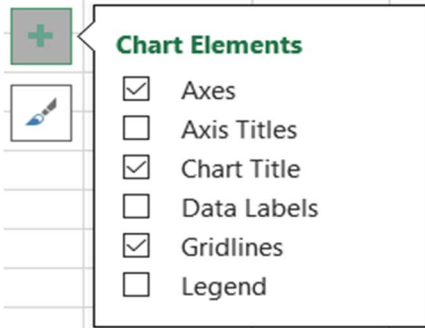
b) Changing Chart layouts, add labels, axis options, chart title, legends, data labels

Chart Layout:

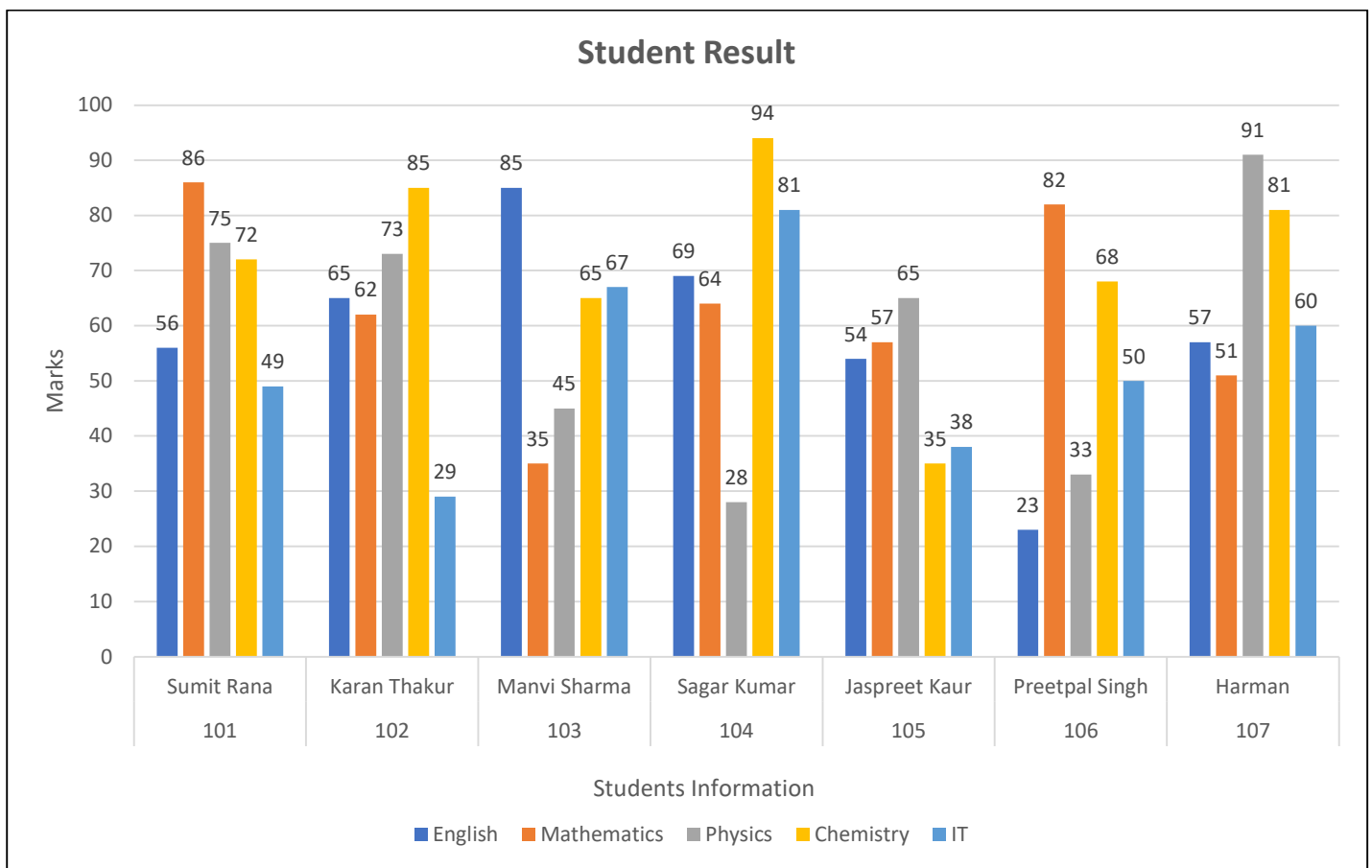
- Click anywhere in the chart or click the chart element that you want to change. This displays the Chart Tools, adding the Design, Layout, and Format tabs.
- On the Layout tab, In the Labels group, click a layout option for the chart label that you want to change.

Add Labels, Axis Options, Chart Title, Legends, Data labels :

- Click the data series or chart.
- In the upper right corner, next to the chart, click Add Chart Element .
- A dialog box will appear.
- Add or Change Labels, Axis Options, Chart Title, Legends, Data labels.



Result:



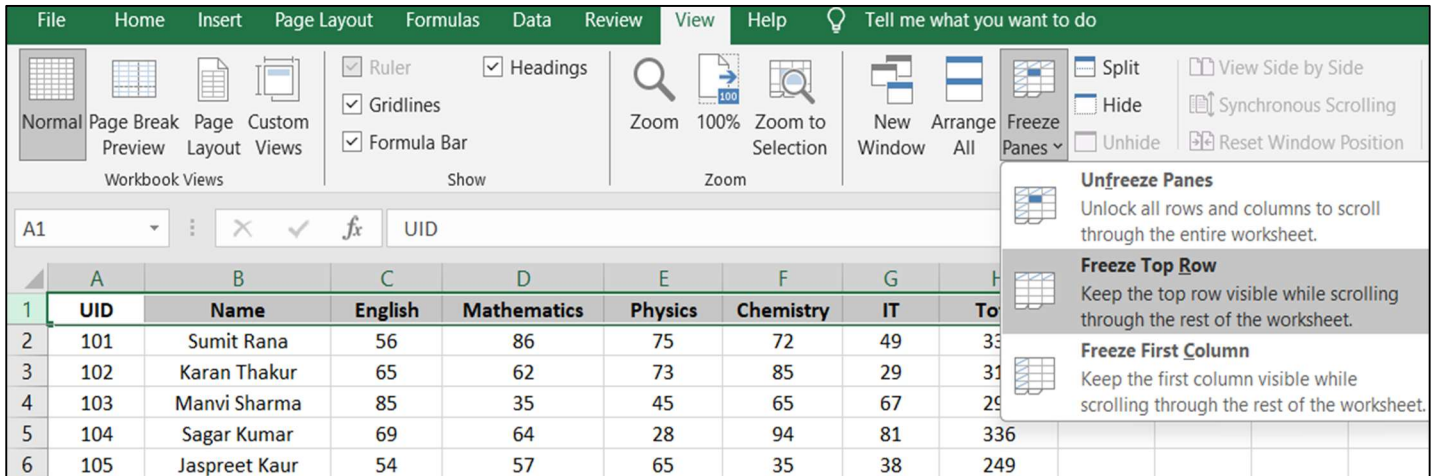
c) Sharing worksheets and Workbooks using freezing panes.

To freeze panes in Excel, follow these steps:

1. Select the row below the row(s) you want to freeze, or the column to the right of the column(s) you want to freeze.
2. On the View tab, in the Window group, click Freeze Panes and then select Freeze Panes.

Once you have frozen the panes, the selected rows and/or columns will remain visible at all times, even when you scroll through the worksheet or workbook.

To share a worksheet or workbook with frozen panes, you can simply save it and send it to the other person. When the other person opens the file, the frozen panes will be preserved.



The screenshot shows the Microsoft Excel interface with the **View** tab selected. The **Freeze Panes** dropdown menu is open, displaying three options:

- Unfreeze Panes**: Unlock all rows and columns to scroll through the entire worksheet.
- Freeze Top Row**: Keep the top row visible while scrolling through the rest of the worksheet.
- Freeze First Column**: Keep the first column visible while scrolling through the rest of the worksheet.

The background shows a worksheet with the following data:

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2	101	Sumit Rana	56	86	75	72	49	339
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6	105	Jaspreet Kaur	54	57	65	35	38	249

Learning outcomes (What I have learnt):

- To implement Charts and Graphs.
- To analyze data using charts.
- To implement different style on charts.
- To implement freezing pane.