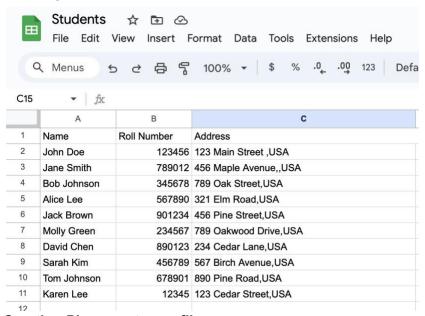
Name – Sanskruti Shetiya Practical No.1 Roll Number - 282 Batch - B4

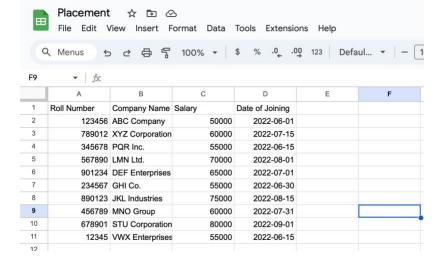
Title - Take/Prepare any text files for any real-life application. Make 3 files and then merge them as one and perform all statistical analysis(Average,Max,Min,Count,Sum,Percentage)

Note: - We have created 10 entries for all the 4 files.

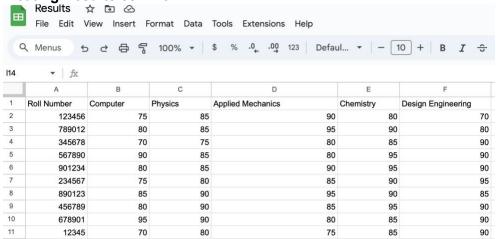
Creating Students.csv file



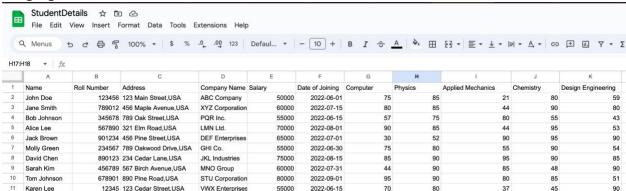
Creating Placements.csv file



Creating Results.csv file



Merging all 3 files as StudentDetails.csv



Statistical functions

Average Score for each subject

```
Average score for Computer: 70.1
Average score for Physics: 81.2
Average score for Applied Mechanics: 63.1
Average score for Chemistry: 77.3
Average score for Design Engineering: 69.5
```

Maximum Score for each subject

```
Maximum score in Computer: 95
Maximum score in Physics: 90
Maximum score in Applied Mechanics: 95
Maximum score in Chemistry: 95
Maximum score in Design Engineering: 90
```

Minimum Score for each subject

```
Minimum score in Computer: 30
Minimum score in Physics: 52
Minimum score in Applied Mechanics: 21
Minimum score in Chemistry: 43
Minimum score in Design Engineering: 43
```

Total Score for Each Subject

```
Total score for Computer: 701
Total score for Physics: 812
Total score for Applied Mechanics: 631
Total score for Chemistry: 773
Total score for Design Engineering: 695
```

Number of Students scoring above 60 in each subject

```
Above 60 in Computer: 7
Above 60 in Physics: 9
Above 60 in Applied Mechanics: 5
Above 60 in Chemistry: 7
Above 60 in for Design Engineering: 5
```

Salary Analysis

```
Minimum Salary: 50000
Maximum Salary: 80000
Average Salary: 62500.0
```

Plotting some of the functionalities

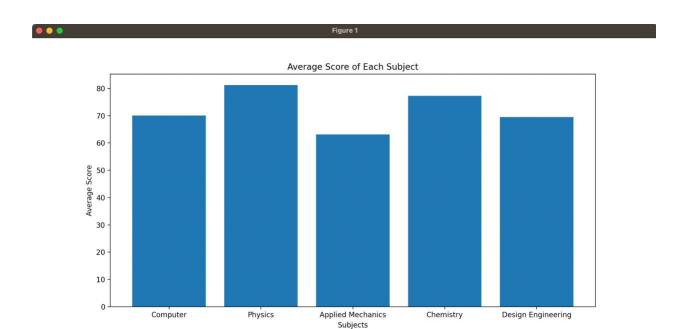


Fig 1) Average Score of Each Subject

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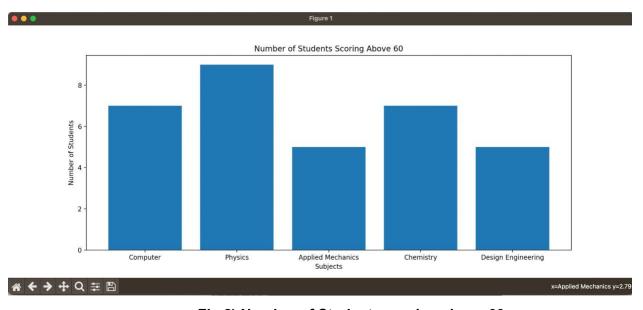
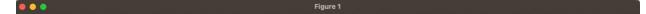


Fig 2) Number of Students scoring above 60



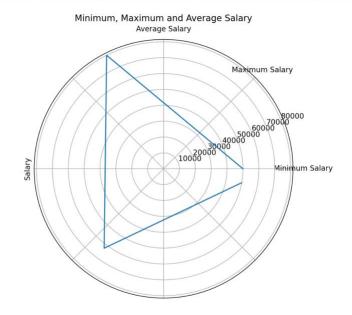




Fig 3) Circular plot for salary analysis

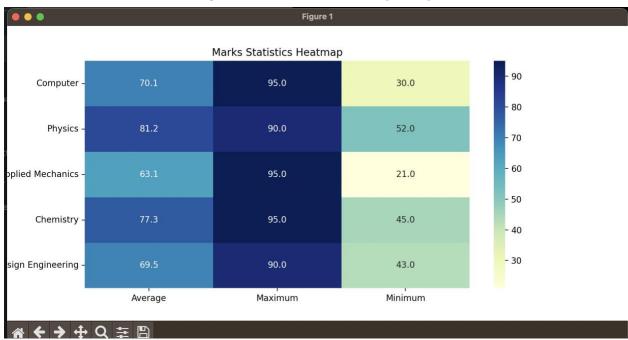


Fig 4) Heatmap for Marks