**Data Visualization (Power Bi)**

While visualizing the employee and timesheet data, I have used line graph, bar graph, stack bar graph, multiple card, and slicer.

The slicer is used to select the required data.

The first\_name slicer is used to select the name of employee on the basis of which the following graphs will show the detail.

The department\_id slicer is used to select the department id on the basis of which the graphs will show the detail. And so do the hire\_date slicer behave.

The ‘Count of hire employee’ card shows that the total number of employees who got hire of specific date. The ‘attendance’ card will shows the total number of attendance who got present till the last date in dataset as count of ‘True’ and the total number of absent who got absent till the last date in dataset as count of ‘False’.

In order to show the comparison among the average worked hours, average break hour, average charge hour, average on\_call\_hour I have used the line chart. This chart shows that the average hours\_worked and average on\_call\_hour are going side by side. Whereas average break\_hour and average charge\_hour is going through in same trend. The ‘blue’ line in graph shows the average of hours\_worked, the ‘purple’ line shows the average on\_call\_hours, the ‘orange’ line shows the average charge\_hour, and the ‘dark blue’ line shows the average break\_hour.

The ‘Count of client\_employee\_id by hire\_date’ shows the number of employee who got hire on any specific date in any specific department\_id.

The ‘num\_teammates\_absent by department\_id and department\_id’ shows the number of team mates who are absent on the specific shift date in specific department. Here on 1st, May, 2021, in department 31288, there are total 30 absentees. I have used the treemap because the department are static.

The ‘Count of client\_employee\_id by department\_id’ shows the number of employees who are enrolled in the specific department till last date in dataset. The department\_id 11151 and 54013 has the highest number of employees i.e. 6.

The ‘Count of data\_valid\_day\_2 employee by department and is\_active’ graph shows that in any department how many employees are active till the last date in dataset and how many are inactive. The graph shows that the department\_id 18048 has total employees 4 in which 2 are inactive and 2 are active. In department\_id 11151 and 54013 has all the employees active.

