**Applichem’s KPIs**

**Task:**

As part of the consultants’ team, your task is to design a set of KPIs to track and to alert management of significant changes, potential issues, etc in production yield, production cost, and labor productivity.

**Instructions:**

*Analyze data in* ***csv files*** *and answer the questions below.*

**Questions:**

1. Create the following KPIs
   * Production yield: **KPI 1** = **yield = total output / total input**
   * Production cost: **KPI 2** = **cost of 100 lbs of release ease chemical = total cost / total output \* 100**
   * Labor productivity: **KPI 3** = **total output / total number of workers of workers**
2. For each KPI compute the **average** daily KPI by plant and by month and summarize the results in a table.
3. Visualize your using a line graph. Are there any significant trends/changes you would want to look into?
4. Based on your analysis what actionable business recommendations would you make to the operations team at Applichem? Be as specific as possible. If you have a hypothesis about a specific problem, describe it, and what the next steps to addressing it might be.