#### **Explanation of Findings**

## 1. Workload Distribution by Department

- **Observation**: Average hours worked varied significantly across departments.
- **Insight**: Departments such as IT and Marketing showed higher average hours worked, indicating potential workload imbalances.

## 2. Employees with Excessive Overtime

- **Observation**: The IT department had the highest # of employees working 10+ overtime hours.
- **Insight**: IT is likely overburdened and may benefit from workload redistribution or additional staffing.

# 3. Productivity Correlations

## • Scatter Plot Findings:

- o Hours worked showed a positive but diminishing return on tasks completed.
- o Beyond a certain point, additional hours do not lead to proportionally higher task completion.

## • Efficiency Ratings:

- Ratings were concentrated around mid to high ranges, suggesting overall steady performance.
- Departments with excessive overtime, such as IT, may experience lower efficiency due to fatigue.

#### Recommendations

#### 1. Address Workload Imbalances:

- o Redistribute tasks to reduce overtime in overburdened departments like IT.
- o Consider hiring additional staff or streamlining workflows.

## 2. Monitor Productivity Trends:

- o Use scatter plot insights to identify optimal work hours for peak productivity.
- Avoid overloading employees as diminishing returns were observed with excessive hours.

### 3. Support Employee Well-being:

- o Encourage regular breaks and work-life balance to maintain efficiency ratings.
- o Provide targeted support to departments with high overtime.

#### **Conclusion**

The analysis highlights critical areas of concern and opportunities for improvement in workload distribution and productivity. By addressing these insights, the organization can enhance employee performance and well-being.