

# Payroll KPI Definitions Document

**Project:** Payroll Intelligence & Risk Monitoring Dashboard

**Purpose:** This document defines all KPIs used in the dashboard, including their business meaning, calculation logic, and decision relevance. It ensures transparency, auditability, and executive understanding.

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## ◆ 1. Total Payroll Cost

- **Definition:** Total salary paid to all employees for the selected period.
  - **Formula:** SUM(Total\_Paid)
  - **Business Purpose:** Understand overall payroll expenditure.
  - **Decision Use:** Cost control, budgeting, and financial planning.
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## ◆ 2. Total Employees

- **Definition:** Count of unique employees paid in the payroll cycle.
  - **Formula:** DISTINCTCOUNT(Employee\_ID)
  - **Business Purpose:** Measure workforce size.
  - **Decision Use:** Headcount planning and HR capacity analysis.
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## ◆ 3. Active Employees

- **Definition:** Employees currently marked as active.
  - **Formula:** DISTINCTCOUNT(Employee\_ID) where Employment\_Status = Active
  - **Business Purpose:** Identify productive workforce.
  - **Decision Use:** Resource utilization and workforce effectiveness.
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## ◆ 4. Inactive Employees Paid

- **Definition:** Inactive employees who still received salary.
  - **Formula:** DISTINCTCOUNT(Employee\_ID) where Employment\_Status = Inactive
  - **Business Purpose:** Identify payroll risk.
  - **Decision Use:** Immediate HR audit and corrective action.
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## ◆ 5. Total Overtime Hours

- **Definition:** Total overtime hours logged by employees.
  - **Formula:** SUM(Overtime\_Hours)
  - **Business Purpose:** Track workload pressure.
  - **Decision Use:** Workforce planning and OT control.
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## ◆ 6. Overtime Cost

- **Definition:** Total cost incurred due to overtime payments.
  - **Formula:**  $\text{SUM}(\text{Overtime\_Pay})$
  - **Business Purpose:** Measure extra labor cost.
  - **Decision Use:** Cost optimization and OT approval policy.
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## ◆ 7. Overtime Abuse Count

- **Definition:** Employees exceeding approved overtime threshold (e.g., >40 hrs).
  - **Formula:**  $\text{COUNTROWS where Overtime\_Abuse\_Flag} = \text{Yes}$
  - **Business Purpose:** Detect misuse of overtime.
  - **Decision Use:** Policy enforcement and investigation.
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## ◆ 8. Overtime % of Payroll

- **Definition:** Proportion of payroll spent on overtime.
  - **Formula:**  $\text{Overtime Cost} / \text{Total Payroll}$
  - **Business Purpose:** Measure OT dependency.
  - **Decision Use:** Identify abnormal payroll patterns.
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## ◆ 9. Ghost Employee Count

- **Definition:** Employees paid without attendance or inactive status.
  - **Formula:**  $\text{COUNTROWS where Ghost\_Employee\_Flag} = \text{Yes}$
  - **Business Purpose:** Detect fraudulent payments.
  - **Decision Use:** Immediate payroll correction and compliance action.
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## ◆ 10. Salary Leakage Count

- **Definition:** Number of payroll records with anomalies.
  - **Formula:**  $\text{COUNTROWS where Salary\_Leakage\_Flag} = \text{Yes}$
  - **Business Purpose:** Measure payroll risk exposure.
  - **Decision Use:** Risk mitigation and audit prioritization.
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## ◆ 11. Salary Leakage Amount

- **Definition:** Total salary paid under leakage conditions.
  - **Formula:**  $\text{SUM}(\text{Total\_Paid}) \text{ where Salary\_Leakage\_Flag} = \text{Yes}$
  - **Business Purpose:** Quantify financial loss.
  - **Decision Use:** Recovery planning and control implementation.
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## ◆ 12. Payroll Exception Rate

- **Definition:** Percentage of payroll records with issues.
  - **Formula:**  $\text{Salary Leakage Count} / \text{Total Payroll Records}$
  - **Business Purpose:** Measure payroll quality.
  - **Decision Use:** Process improvement tracking.
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## ◆ 13. Attendance Rate

- **Definition:** Average employee attendance percentage.
  - **Formula:**  $\text{AVERAGE}(\text{Days\_Present} / \text{Working\_Days})$
  - **Business Purpose:** Measure workforce discipline.
  - **Decision Use:** Performance and policy evaluation.
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## ◆ 14. Missing Attendance Count

- **Definition:** Employees with no attendance recorded.
  - **Formula:** COUNTROWS where Days\_Present = 0
  - **Business Purpose:** Identify attendance-payroll mismatch.
  - **Decision Use:** System validation and HR intervention.
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## ◆ 15. Average Salary per Employee

- **Definition:** Mean salary paid per employee.
  - **Formula:**  $\text{Total Payroll} / \text{Total Employees}$
  - **Business Purpose:** Understand compensation levels.
  - **Decision Use:** Pay benchmarking and cost analysis.
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## ◆ 16. Department-wise Payroll

- **Definition:** Payroll distribution across departments.
  - **Formula:** SUM(Total\_Paid) grouped by Department
  - **Business Purpose:** Identify cost-heavy departments.
  - **Decision Use:** Budget allocation and optimization.
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