

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.

◆ 1. Total Payroll Cost

- **Definition:** Total salary paid to all employees for the selected period.
 - **Formula:** $\text{SUM}(\text{Total_Paid})$
 - **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:** $\text{DISTINCTCOUNT}(\text{Employee_ID})$
 - **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:** $\text{DISTINCTCOUNT}(\text{Employee_ID}) \text{ where Employment_Status = Active}$
 - **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:** $\text{DISTINCTCOUNT}(\text{Employee_ID}) \text{ where Employment_Status = Inactive}$
 - **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:** $\text{SUM}(\text{Overtime_Hours})$
 - **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:** SUM(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:** COUNTROWS where Overtime_Abuse_Flag = 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:** Overtime Cost / 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:** COUNTROWS where Ghost_Employee_Flag = 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:** COUNTROWS where Salary_Leakage_Flag = 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:** SUM(Total_Paid) where Salary_Leakage_Flag = 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:** Salary Leakage Count / 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:** AVERAGE(Days_Present / 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:** Total Payroll / 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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