

LAPORAN TUGAS PRAKTIKUM JOBSHEET 11
BASIS DATA LANJUT
WEB CRUD DENGAN POSTGRESQL & PHP



Disusun Oleh:
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2025

- **TUGAS 1: IMPLEMENTASI FUNGSI AGREGAT PADA WEB**

Buat 3 halaman statistik baru yang menggunakan fungsi agregat PostgreSQL:

1. Halaman Statistik Gaji (salary_stats.php)

- Tampilkan: Rata-rata gaji, gaji tertinggi, gaji terendah per departemen
- Gunakan fungsi: AVG(), MAX(), MIN(), GROUP BY

Jawab:

sistem manajemen karyawan
aplikasi crud sederhana dengan postgresql & php

dashboard data karyawan tambah karyawan statistik departemen statistik gaji masa kerja ringkasan karyawan

refresh dashboard

statistik gaji per departemen

departemen	rata-rata gaji	gaji tertinggi	gaji terendah
Finance	rp 7.650.000	rp 8.200.000	rp 7.200.000
HR	rp 7.400.000	rp 9.500.000	rp 6.200.000

refresh dashboard

statistik gaji per departemen

departemen	rata-rata gaji	gaji tertinggi	gaji terendah
Finance	rp 7.650.000	rp 8.200.000	rp 7.200.000
HR	rp 7.400.000	rp 9.500.000	rp 6.200.000
IT	rp 8.242.857	rp 9.000.000	rp 7.800.000
Marketing	rp 6.533.333	rp 7.000.000	rp 5.800.000
Operations	rp 8.100.000	rp 11.000.000	rp 6.000.000

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2. Halaman Masa Kerja (tenure_stats.php)

- Tampilkan: Karyawan berdasarkan masa kerja (Junior: < 1 tahun, Middle: 1-3 tahun, Senior: > 3 tahun)
- Gunakan fungsi: COUNT(), CASE WHEN, GROUP BY

Jawab:

departemen	junior (<1 th)	middle (1-3 th)	senior (>3 th)
Finance	0	4	0
HR	0	2	1

departemen	junior (<1 th)	middle (1-3 th)	senior (>3 th)
Finance	0	4	0
HR	0	2	1
IT	1	3	3
Marketing	0	3	0
Operations	0	2	1
total	1	14	5

3. Halaman Ringkasan Karyawan (employee_overview.php)

- Tampilkan: Total karyawan, total gaji per bulan, rata-rata masa kerja
- Gunakan fungsi: COUNT(), SUM(), AVG()

Jawab:

The screenshot shows a web browser window titled "sistem manajemen karyawan" with the URL "localhost/employee-management/index.php?action=employee_overview". The page has a purple header bar with the title and a subtitle "aplikasi crud sederhana dengan postgresql & php". Below the header is a navigation menu with links: dashboard, data karyawan, tambah karyawan, statistik departemen, statistik gaji, masa kerja, and ringkasan karyawan. A "refresh dashboard" button is also present. The main content area is titled "ringkasan karyawan" and displays three summary boxes: "total karyawan" (20), "total gaji per bulan" (rp 154.400.000), and "rata-rata masa kerja" (2.80 tahun). The bottom of the screen shows a Windows taskbar with various icons and the date/time "10/11/2025 09:31".

The screenshot shows the same web browser window as the previous one, but the content has changed to show "rincian per departemen" (department details). It features a table with columns: departemen (Department), jumlah karyawan (Number of Employees), and rata-rata gaji (Average Salary). The table data is as follows:

departemen	jumlah karyawan	rata-rata gaji
Finance	4	rp 7.650.000
HR	3	rp 7.400.000
IT	7	rp 8.242.857
Marketing	3	rp 6.533.333
Operations	3	rp 8.100.000

At the bottom of the page, a copyright notice reads "© 2025 Sistem Manajemen Karyawan. All rights reserved." The bottom of the screen shows a Windows taskbar with various icons and the date/time "10/11/2025 09:32".

===== SELESAI =====