

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



**Disusun Oleh:**

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**PROGRAM STUDI D4 SISTEM INFOMASI BISNIS**  
**2025**

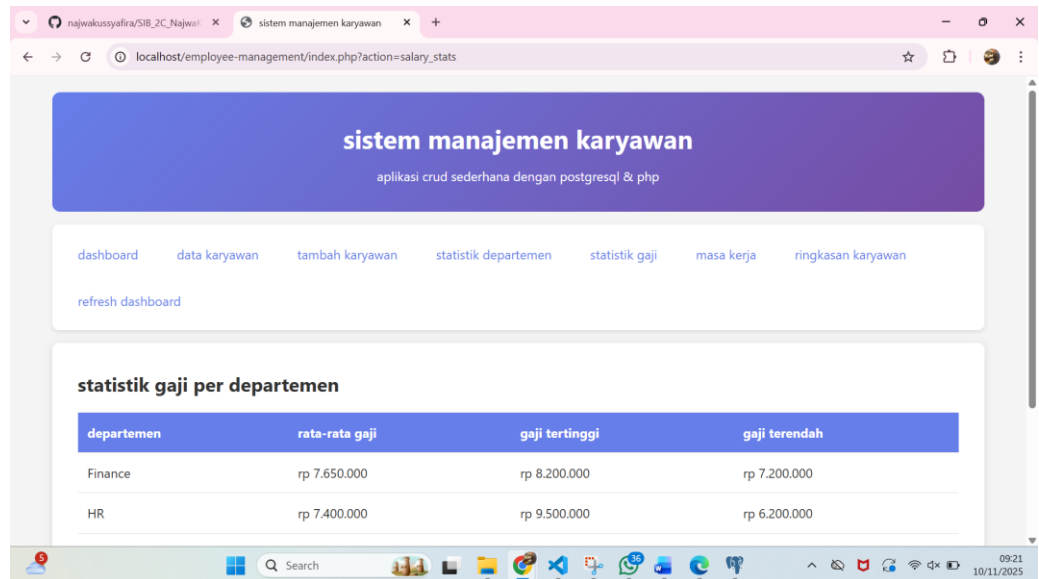
- **TUGAS 1: IMPLEMENTASI FUNGSI AGREGAT PADA WEB**

**Buat 3 halaman statistik baru yang menggunakan fungsi agregat PostgreSQL:**

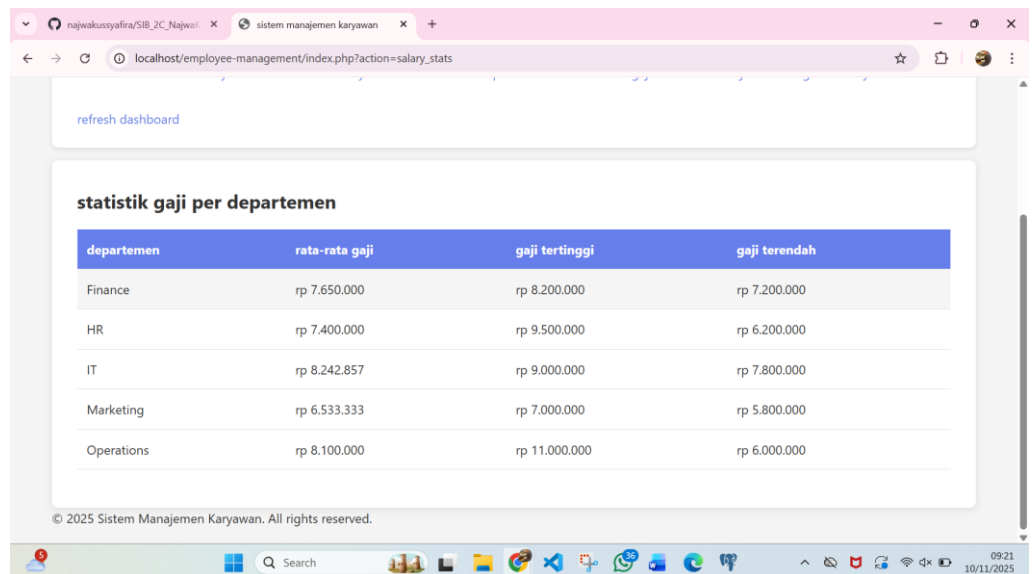
1. Halaman Statistik Gaji (salary\_stats.php)

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

Jawab:



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



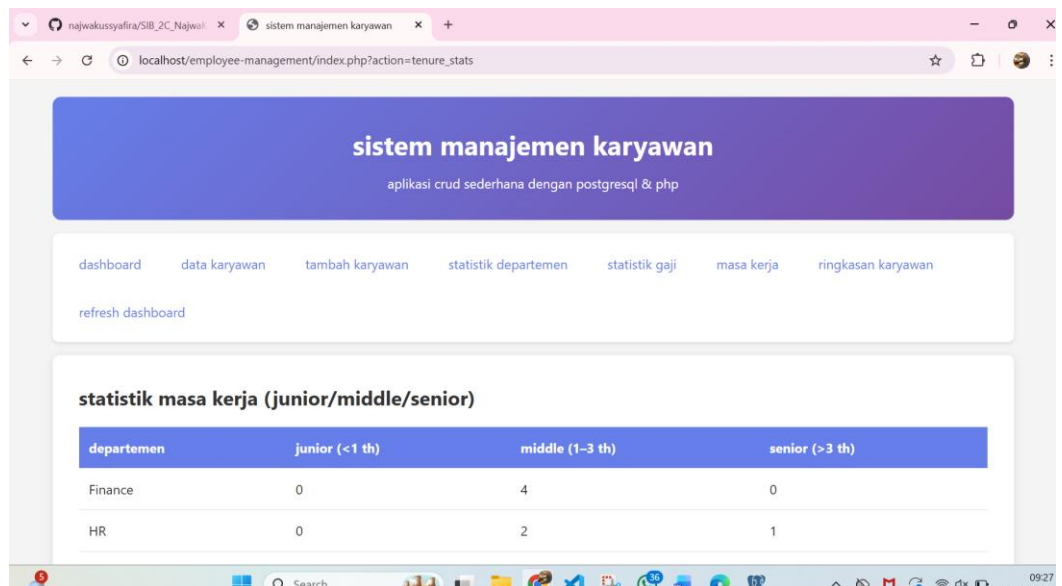
departemen	rata-rata gaji	gaji tertinggi	gaji terendah
Finance	rp 7.650.000	rp 8.200.000	rp 7.200.000
HR	rp 7.400.000	rp 9.500.000	rp 6.200.000
IT	rp 8.242.857	rp 9.000.000	rp 7.800.000
Marketing	rp 6.533.333	rp 7.000.000	rp 5.800.000
Operations	rp 8.100.000	rp 11.000.000	rp 6.000.000

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## 2. Halaman Masa Kerja (tenure\_stats.php)

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

Jawab:



The screenshot shows a web application titled "sistem manajemen karyawan" with a subtitle "aplikasi crud sederhana dengan postgresql & php". The navigation bar includes links for dashboard, data karyawan, tambah karyawan, statistik departemen, statistik gaji, masa kerja, and ringkasan karyawan. The "statistik masa kerja (junior/middle/senior)" section contains a table with the following data:

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



The screenshot shows the same web application, but with a more detailed view of the "statistik masa kerja (junior/middle/senior)" section. The table includes additional departments and a total row:

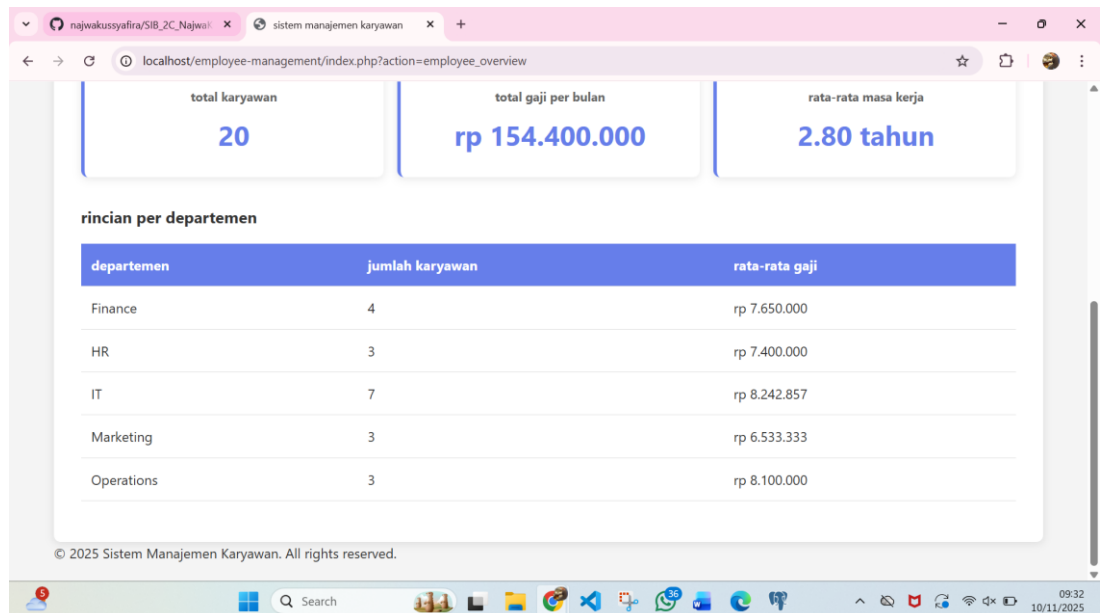
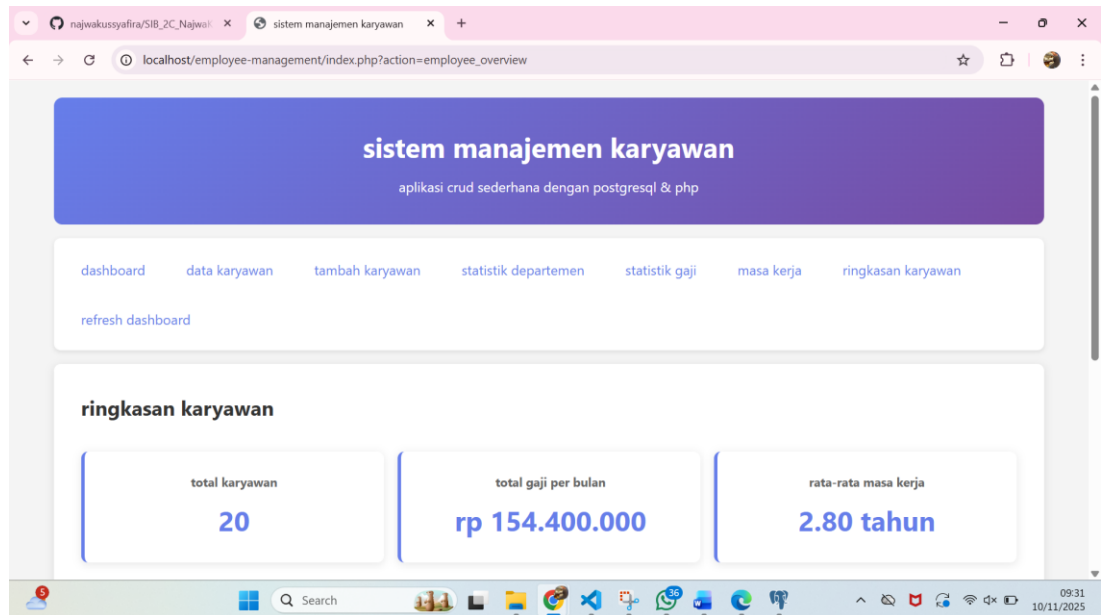
departemen	junior (<1 th)	middle (1-3 th)	senior (>3 th)
Finance	0	4	0
HR	0	2	1
IT	1	3	3
Marketing	0	3	0
Operations	0	2	1
total	1	14	5

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### 3. Halaman Ringkasan Karyawan (employee\_overview.php)

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

Jawab:



===== SELESAI =====