

BASIS DATA LANJUT

TUGAS 11



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PROGRAM STUDI SISTEM INFORMASI BISNIS

JURUSAN TEKNOLOGI INFORMASI

POLITEKNIK NEGERI MALANG

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1. Salary_stats

The screenshot shows the 'Salary Stats' page of the 'Sistem Manajemen Karyawan' application. The page has a navigation bar with links: Dashboard, Data Karyawan, Tambah Karyawan, Statistik Departemen, Statistik Gaji, and Statistik Masa Kerja. Below the navigation bar, there are links for 'Ringkasan Karyawan' and 'Refresh Dashboard'. The main content area is titled 'Statistik Gaji' and contains a table with salary data for different departments.

Departemen	Gaji Rata-rata	Gaji Terendah	Gaji Tertinggi
IT	Rp 9.228.571	Rp 7.800.000	Rp 15.000.000
Finance	Rp 7.650.000	Rp 7.200.000	Rp 8.200.000
Marketing	Rp 6.533.333	Rp 5.800.000	Rp 7.000.000
Operations	Rp 8.100.000	Rp 6.000.000	Rp 11.000.000
HR	Rp 7.400.000	Rp 6.200.000	Rp 9.500.000

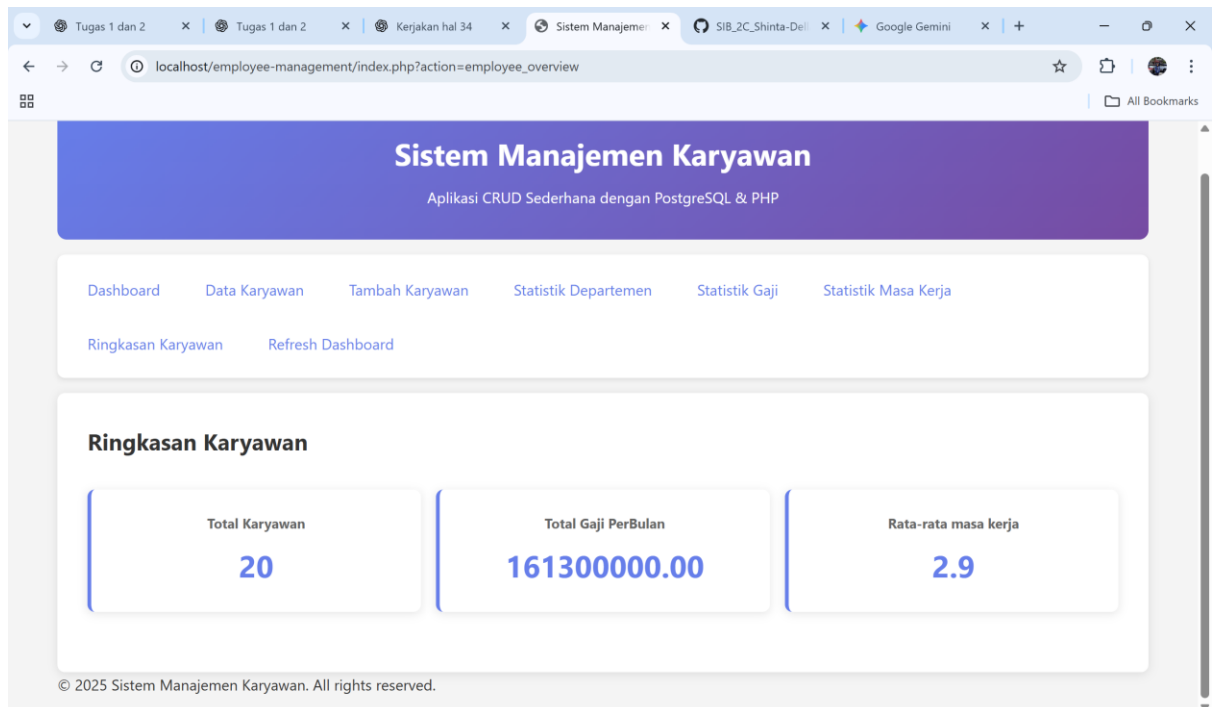
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2. Tenure_stats

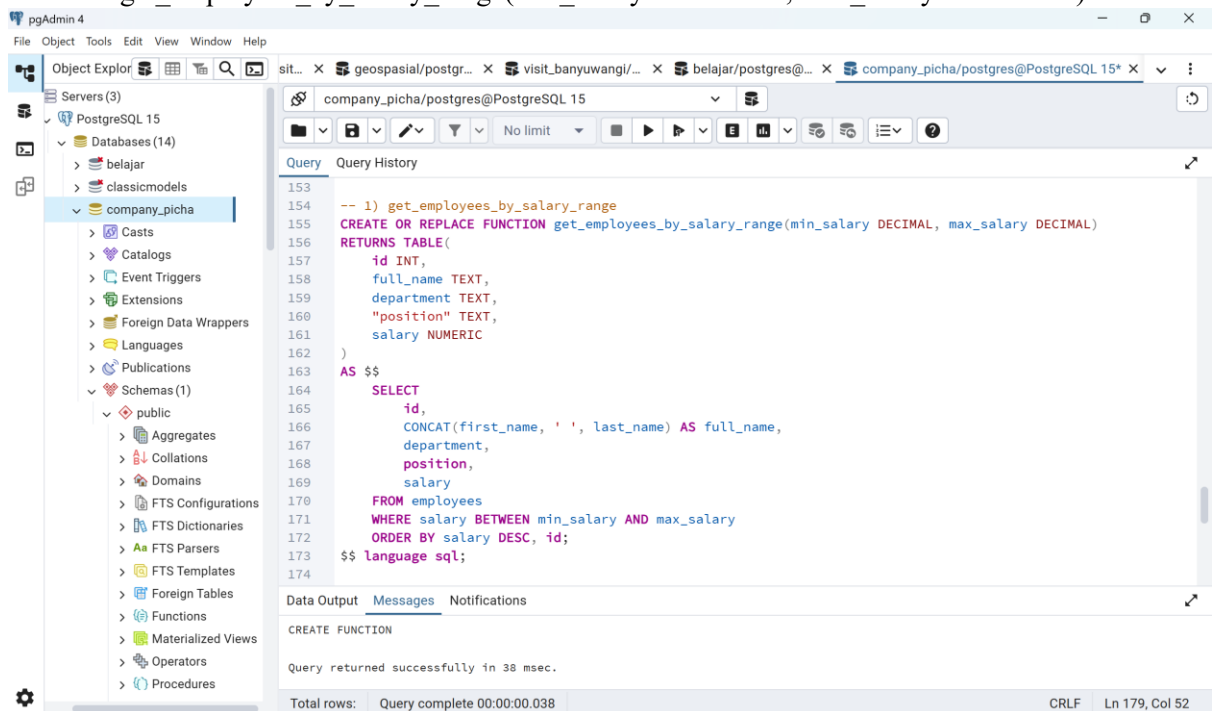
The screenshot shows the 'Tenure Stats' page of the 'Sistem Manajemen Karyawan' application. The page has a navigation bar with links: Dashboard, Data Karyawan, Tambah Karyawan, Statistik Departemen, Statistik Gaji, and Statistik Masa Kerja. Below the navigation bar, there are links for 'Ringkasan Karyawan' and 'Refresh Dashboard'. The main content area is titled 'Masa Kerja' and contains a table with tenure data for different levels.

Level	Jumlah
Intermediate	6
Senior	13
Junior	1

3. Employee_overview



4. Function `get_employees_by_salary_range(min_salary DECIMAL, max_salary DECIMAL)`



5. Function `get_department_summary()`

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Object Explorer

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Query

```
-- 2) get_department_summary
CREATE OR REPLACE FUNCTION get_department_summary()
RETURNS TABLE(
    department TEXT,
    employee_count BIGINT,
    avg_salary NUMERIC,
    total_budget NUMERIC
)
AS $$
SELECT
    department,
    COUNT(*) AS employee_count,
    ROUND(AVG(salary)::numeric, 2) AS avg_salary,
    SUM(salary)::numeric AS total_budget
FROM employees
GROUP BY department
ORDER BY department;
$$ language sql;

SELECT * FROM get_department_summary();
```

Query History

Data Output Messages Notifications

CREATE FUNCTION

Query returned successfully in 38 msec.

Total rows: Query complete 00:00:00.038 CRLF Ln 192, Col 19