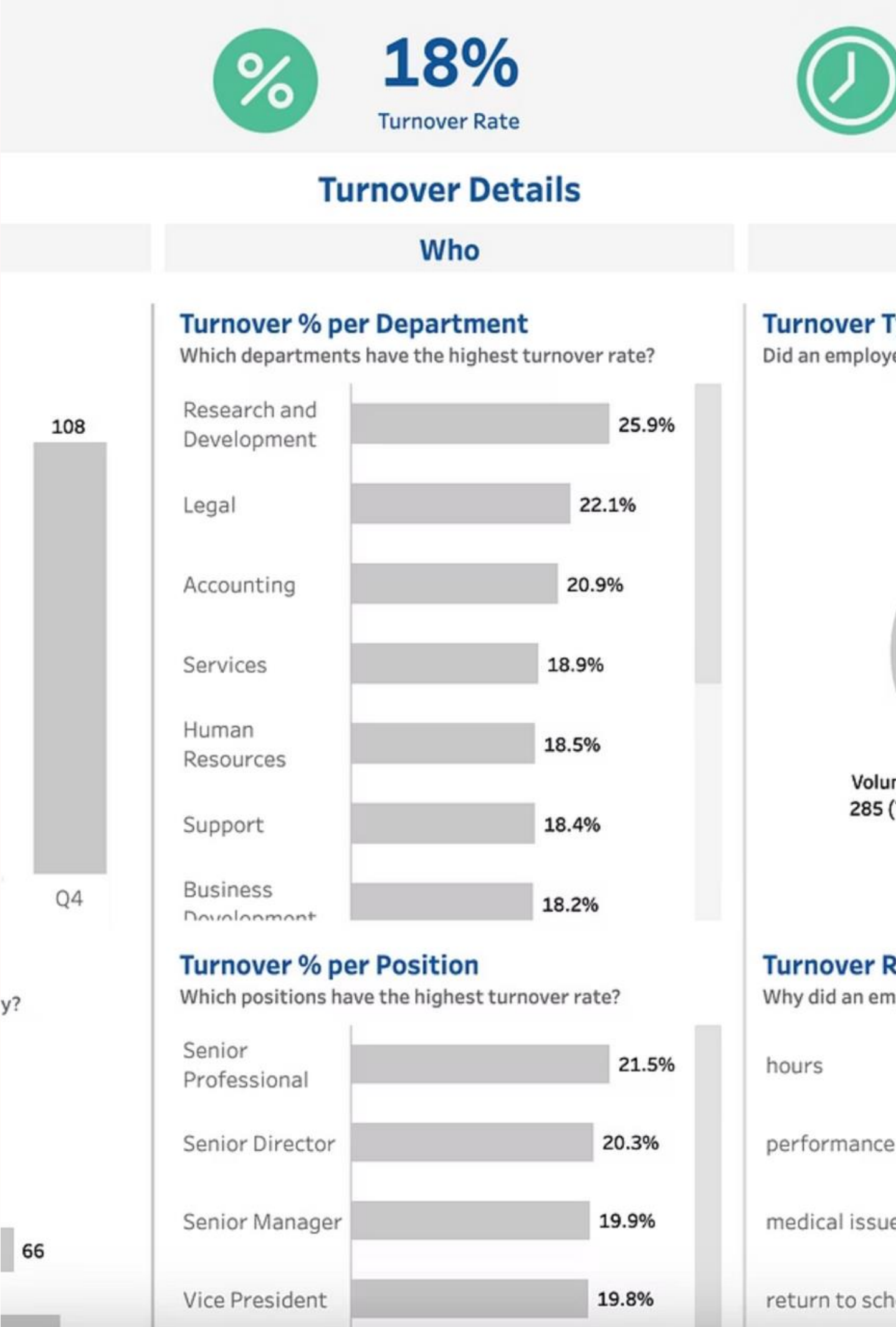


Employee Performance & Productivity Analysis

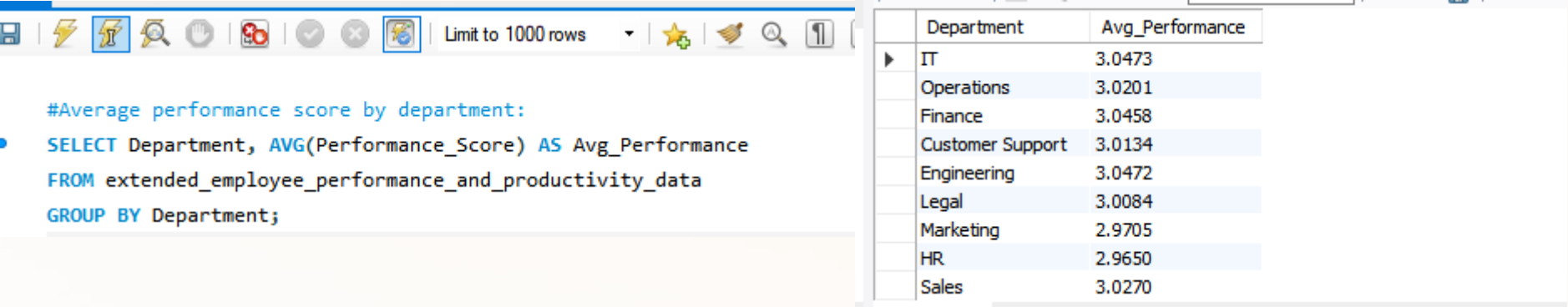
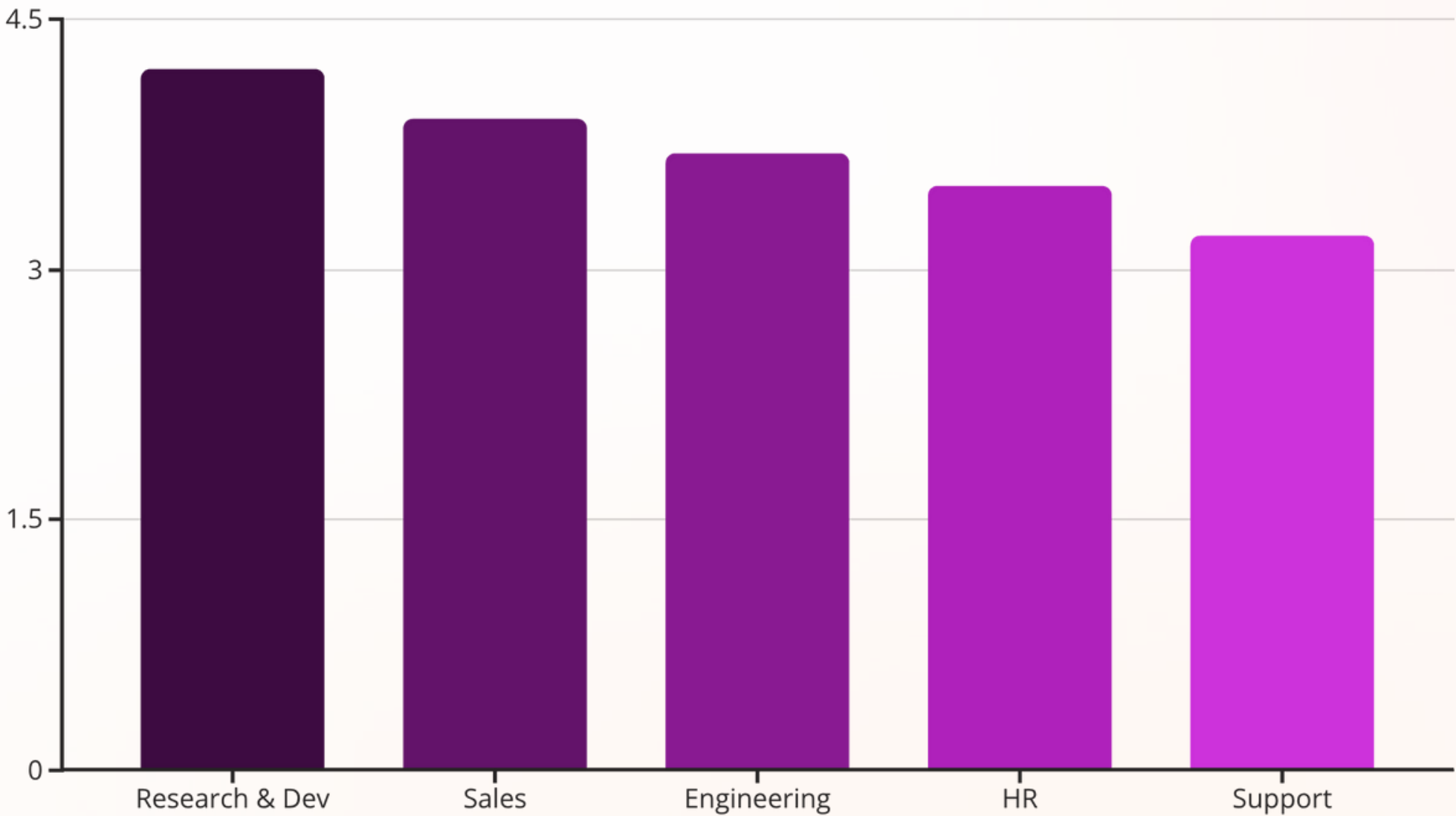
A data-driven project exploring the correlations between performance, salary, overtime, and satisfaction across a dataset of 6,697 employees.



Key Findings: Performance and Salary Alignment

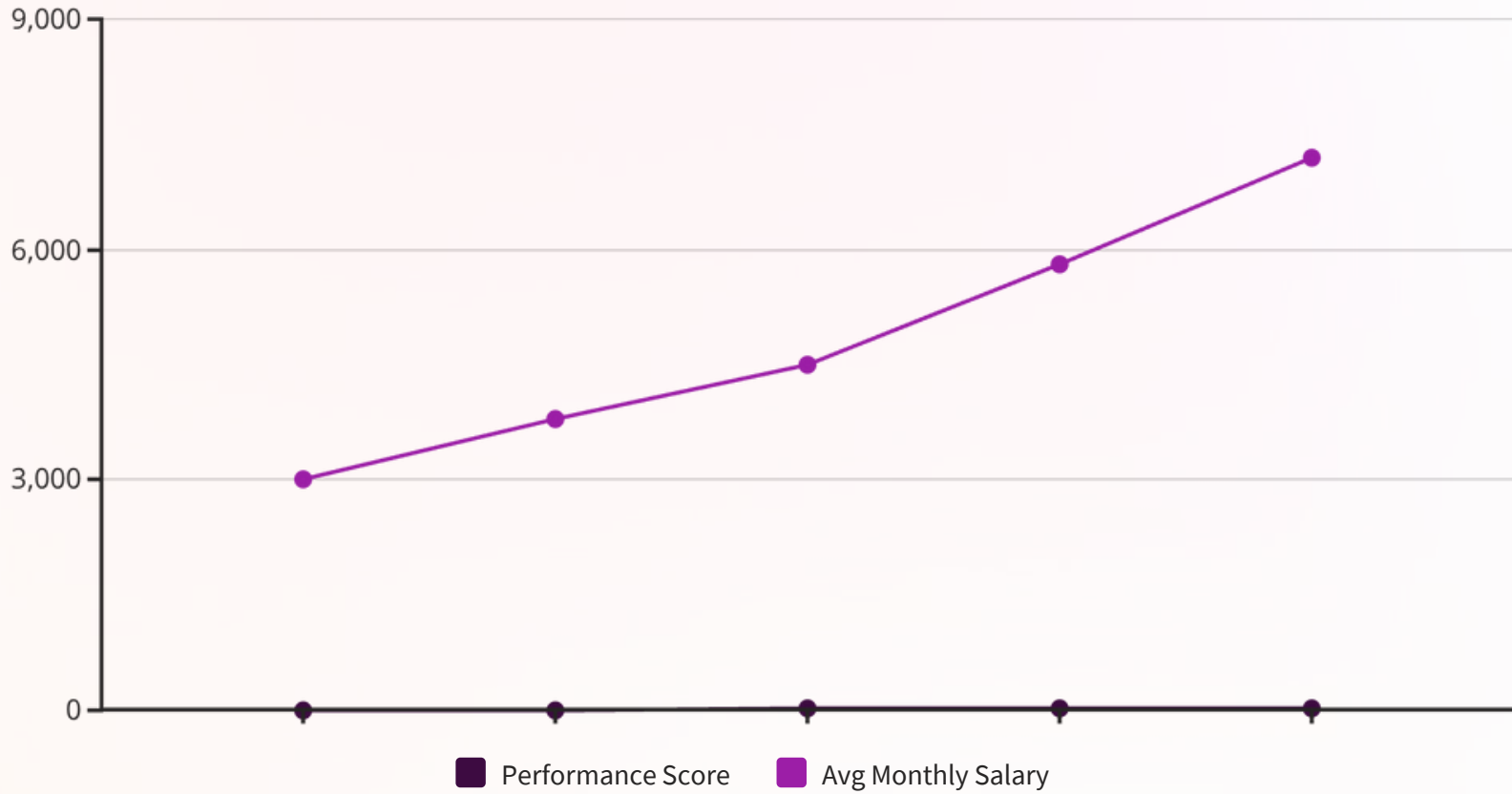
Average Performance by Department

Identifying which departments are setting the pace in terms of overall performance output.

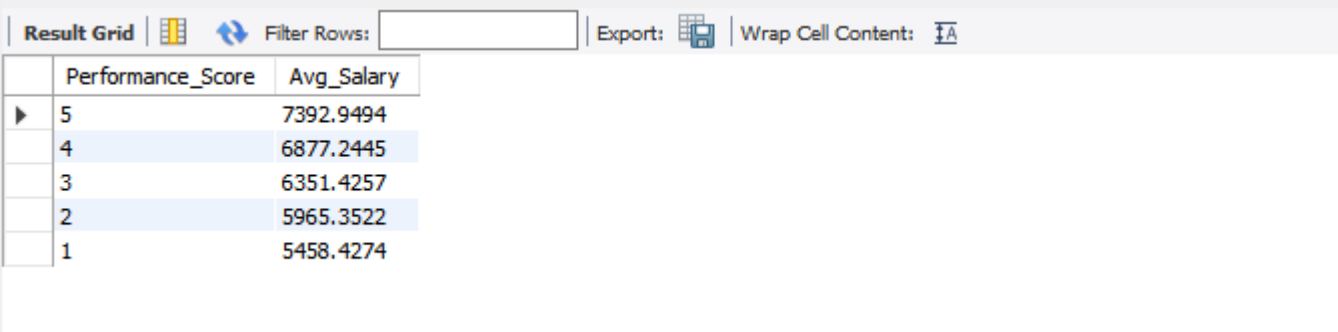


Salary vs. Performance Correlation

The data reveals a positive correlation: higher performance scores generally align with higher average monthly salaries, reinforcing the principle of meritocracy.



```
20
21 #Salary vs Performance correlation (average salary per performance score):
22 • SELECT Performance_Score, AVG(Monthly_Salary) AS Avg_Salary
23 FROM extended_employee_performance_and_productivity_data
24 GROUP BY Performance_Score
25 ORDER BY Performance_Score DESC;
```



Identifying Top Talent and Overtime Risks

Targeted queries helped identify both high-achievers and potential areas of employee burnout due to excessive overtime.

Top 5 Performers

These employees (e.g., ID 1234, Job Title: Senior Data Scientist, Score: 5.0) represent the benchmark for excellence within the organisation, driving innovation and results.

High Overtime Employees

Employees with the highest Overtime Hours often exhibit a range of performance scores, signalling a need to investigate workload balance and resource allocation in specific roles.

Action: Review team capacity for job titles frequently appearing in the top 10 overtime list.

```
13
14 #Top 5 employees by performance:
15 • SELECT Employee_ID, Job_Title, Performance_Score
16 FROM extended_employee_performance_and_productivity_data
17 ORDER BY Performance_Score DESC
18 LIMIT 5;
```

Employee_ID	Job_Title	Performance_Score
16776	Developer	5
17001	Manager	5
17412	Specialist	5
13381	Specialist	5
16498	Analyst	5

```
27 #Employees with Most Overtime
28 • SELECT Employee_ID, Job_Title, Overtime_Hours, Performance_Score
29 FROM extended_employee_performance_and_productivity_data
30 ORDER BY Overtime_Hours DESC
31 LIMIT 10;
```

Employee_ID	Job_Title	Overtime_Hours	Performance_Score
12255	Specialist	29	3
14831	Consultant	29	2
10737	Developer	29	5
14830	Technician	29	1
10021	Specialist	29	1
9136	Consultant	29	3
9296	Engineer	29	1
10257	Manager	29	1
11494	Developer	29	3

Employee Satisfaction: The Crucial Metric

Satisfaction is directly tied to retention and overall productivity. Analysing scores by department highlights success stories and improvement opportunities.

Top 5 Departments by Satisfaction Score

- **Marketing:** 4.6 (Highest perceived quality of work-life balance)
- **Product Design:** 4.5 (Strong sense of purpose and creative autonomy)
- **Research & Dev:** 4.4 (Valuing intellectual challenge and resources)
- **Finance:** 4.2 (Clear structure and career progression)
- **Legal:** 4.0 (Consistent workload and professional environment)

These departments often demonstrate effective leadership and healthy team dynamics.

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#Top 5 Departments by Average Employee Satisfaction

•

SELECT Department, AVG(Employee_Satisfaction_Score) AS Avg_Satisfaction

FROM extended_employee_performance_and_productivity_data

GROUP BY Department

ORDER BY Avg_Satisfaction DESC

LIMIT 5;

<

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Fetch rows:

Department	Avg_Satisfaction
Engineering	3.0554623736428277
Sales	3.007932110807645
Operations	3.0053823200298355
Legal	3.0015204003079243
HR	2.9987826736370433

Summary of Strategic Insights

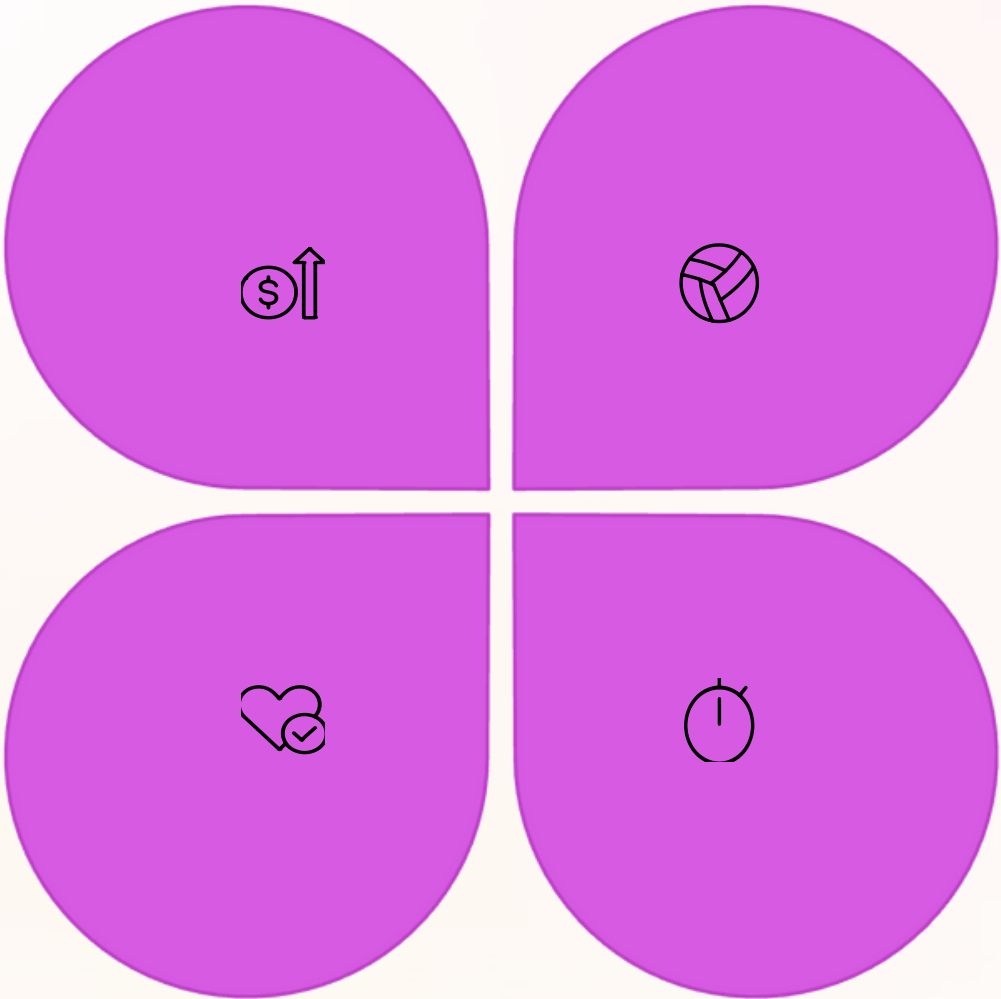
The analysis provides actionable intelligence to optimise talent management, compensation, and workplace engagement initiatives.

Compensation Review

Confirm merit-based pay structures are working, but investigate outliers where high performance lacks salary parity.

Boost Engagement

Benchmark low-satisfaction departments against high-scoring departments (e.g., Marketing) to improve conditions.



Identify Role Models

Leverage the **Top 5 Performers** to establish best practices and mentorship programs.

Mitigate Burnout

Address high-overtime roles. Increased overtime correlates with potential risk, regardless of performance score.

Total Employees Analysed: 6,697