2. For each department, display the total salary expenditure, the average salary, and the highest salary. Use window functions to calculate the total, average, and max salary, but show each result for all employees in that department

SELECT

e.department\_id,

d.department\_name,

e.employee\_id,

e.first\_name,

e.last\_name,

s.salary,

SUM(s.salary) OVER (PARTITION BY e.department\_id) AS total\_salary\_expenditure,

AVG(s.salary) OVER (PARTITION BY e.department\_id) AS average\_salary,

MAX(s.salary) OVER (PARTITION BY e.department\_id) AS highest\_salary

FROM employees e

JOIN departments d ON e.department\_id = d.department\_id

JOIN salaries s ON e.employee\_id = s.employee\_id

ORDER BY e.department\_id, e.employee\_id;

