Task 1: Using Comparison and Logical Operators

Question:
Write a SQL query to retrieve the emp_id, last_name, and salary of employees whose salary is between 2,000 and 5,000 and do not have a manager ID of 101 or 200.

Answer:

```
SELECT emp_id, last_name, salary
FROM employees
WHERE salary BETWEEN 2000 AND 5000
  AND manager_id NOT IN (101, 200);
```

Task 2: Using JOINs and Aliases

Question:
Write a SQL query to display the employee names along with their respective department names. Use aliases for table names for better readability.

Answer:

```
SELECT e.name AS employee_name, d.name AS department_name
FROM employees e
INNER JOIN departments d
ON e.department_id = d.department_id
ORDER BY d.name ASC;
```

Task 3: Aggregate Functions and GROUP BY

Question:
Write a SQL query to find the number of employees and the average salary for each department. Ensure that the results are grouped by department ID.

Answer:

```
SELECT department_id,
    COUNT(*) AS number_of_employees,
    AVG(salary) AS average_salary
FROM employees
GROUP BY department_id;
```