

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.

Instructions:

1. Use the `SELECT` statement to specify the columns: `emp_id`, `last_name`, and `salary`.
 2. Filter the results using the `WHERE` clause with the `BETWEEN` operator to set the salary range.
 3. Use the `NOT IN` clause to exclude certain manager IDs.
 4. Combine conditions using the `AND` logical operator.
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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.

Instructions:

1. Use the `SELECT` statement to specify the columns: `employee.name` and `department.name`.
 2. Use the `FROM` clause to include the tables `employees` and `departments`.
 3. Use an `INNER JOIN` to connect the `employees` and `departments` tables based on the department IDs.
 4. Use table aliases (e.g., `e` for `employees`, `d` for `departments`) to shorten the table names in the query.
 5. Order the results by department name in ascending order.
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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.

Instructions:

1. Use the `SELECT` statement to specify the department ID, the count of employees, and the average salary.
2. Use the `GROUP BY` clause to group the results by department ID.
3. Use the `COUNT ()` function to find the number of employees in each department.
4. Use the `AVG ()` function to calculate the average salary in each department.