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1.write a SQL query to find those employees who receive a higher salary than the employee with ID 163. Return first name, last name.

```
SELECT first_name,last_name FROM employees WHERE salary > (SELECT salary FROM employees WHERE employee_id = 163);
```

2. write a SQL query to find out which employees have the same designation as the employee whose ID is 169. Return first name, last name, department ID and job ID.

```
SELECT first_name,last_name,salary,department_id,job_id FROM employees WHERE job_id = (SELECT job_id FROM employees WHERE employee_id = 169);
```

3. write a SQL query to find those employees whose salary matches the lowest salary of any of the departments. Return first name, last name and department ID

```
SELECT first_name,last_name,salary,department_id FROM employees WHERE salary IN (SELECT MIN(salary) FROM employees GROUP BY department_id);
```

4. write a SQL query to find those employees who earn more than the average salary. Return employee ID, first name, last name

```
SELECT employee_id,first_name,last_name FROM employees WHERE salary > (SELECT AVG(salary) FROM employees);
```

5. write a SQL query to find those employees who report to that manager whose first name is 'Payam'. Return first name, last name, employee ID and salary

```
SELECT first_name,last_name,employee_id,salary FROM employees WHERE manager_id = (SELECT employee_id FROM employees WHERE first_name = 'Payam');
```

6. write a SQL query to find all those employees who work in the Finance department. Return department ID, name (first), job ID and department name.

```
SELECT e.department_id,e.first_name,e.last_name,e.job_id,d.department_name
FROM employees e INNER JOIN departments d ON e.department_id = d.department_id
WHERE d.department_name = 'Finance';
```

7. write a SQL query to find the employee whose salary is 3000 and reporting person's ID is 121. Return all fields.

```
SELECT * FROM employees WHERE (salary, manager_id) = (SELECT 3000, 121);
```

8. write a SQL query to find those employees whose ID matches any of the numbers 134, 159 and 183. Return all the fields.

```
SELECT * FROM employees WHERE employee_id IN (134, 159, 183);
```

9. write a SQL query to find those employees whose salary is in the range of 1000, and 3000 (Begin and end values have included.). Return all the fields.

```
SELECT * FROM employees WHERE salary BETWEEN 1000.00 AND 3000.00;
```

10. write a SQL query to find those employees who get second-highest salary. Return all the fields of the employees.

```
SELECT * FROM employees WHERE employee_id IN (SELECT employee_id FROM
employees WHERE salary IN (SELECT MAX(salary) FROM employees WHERE salary < (SELECT
MAX(salary) FROM employees)));
```

11. write a SQL query to find those employees who earn more than the average salary and work in the same department as an employee whose first name contains the letter 'J'. Return employee ID, first name and salary.

```
SELECT employee_id,first_name,last_name,salary FROM employees WHERE salary >
(SELECT AVG(salary) FROM employees) AND department_id IN (SELECT department_id
FROM employees WHERE first_name LIKE '%J%');
```

12. write a SQL query to find those employees whose salary is lower than that of employees whose job title is ‘MK_MAN’. Return employee ID, first name, last name, job ID.

```
SELECT employee_id,first_name,last_name,job_id FROM employees WHERE salary < ANY (SELECT salary FROM employees WHERE job_id = 'MK_MAN');
```