\<Quiz\>

1. employees 테이블로부터 평균 급여가 가장 높은 부서의 부서 번호와 최저 급여를 표시하는 쿼리구문을 작성하시오.

DEPARTMENT_ID	MIN(SALARY)
90	17000

SELECT department_id, MIN(salary)
FROM employees
GROUP BY department_id
HAVING AVG(salary) = (select max(t.avg_sal)
                      from (SELECT AVG(salary) as avg_sal
                            FROM employees
                            GROUP BY department_id) t);

2. employees 테이블과 departments 테이블로부터 HR 부서를 위해 통계 보고서를 작성합니다. 이 보고서에는 다음 조건의 부서에 대한 부서 번호, 부서 이름 및 근무하는 사원수를 출력합니다.

a) 사원수가 3명 미만인 부서:

```
SELECT d.department_id, d.department_name, COUNT(*)
FROM departments d JOIN employees e
ON d.department_id = e.department_id
GROUP BY d.department_id, d.department_name
HAVING COUNT(*) < 3;
```

b) 사원수가 가장 많은 부서:

```
SELECT d.department_id, d.department_name, COUNT(*)
FROM departments d JOIN employees e
ON d.department_id = e.department_id
GROUP BY d.department_id, d.department_name
HAVING COUNT(*) = (SELECT MAX(a.emp_count)
                   FROM (SELECT count(*) as emp_count
                         FROM employees
                         GROUP BY department_id) a);
```

c) 사원수가 가장 적은 부서:

```
SELECT d.department_id, d.department_name, COUNT(*)
FROM departments d JOIN employees e
ON d.department_id = e.department_id
GROUP BY d.department_id, d.department_name
HAVING COUNT(*) = (SELECT MIN(b.emp_count)
                   FROM (SELECT COUNT(*) as emp_count
                         FROM employees
                         GROUP BY department_id) b);
```