MI 1.02: Report #6

Due on

 $Nghiem\ Thi\ Phuong\ 5:30pm$

Cao Anh Quan

Problem 1

1. Who have the same name as the managers of the Finance department?

```
SELECT *
FROM employees
WHERE employees.last_name IN (
    SELECT last_name
FROM
    employees
    JOIN dept_manager ON employees.emp_no = dept_manager.emp_no
    JOIN departments ON dept_manager.dept_no = departments.dept_no
WHERE departments.dept_name = 'Finance'
);
```

	emp_no •	birth_date •	first_name	last_name •	gender ÷	iii hire_date •
1	10210	1958-01-24	Yuping	Alpin	M	1994-05-10
2	10414	1954-04-09	Yinlin	Alpin	M	1990-05-30
3	11856	1962-12-18	Gao	Alpin	F	1989-01-14
4	12920	1964-05-06	Tetsushi	Legleitner	F	1988-10-01
5	13292	1962-04-04	Bokyung	Alpin	F	1995-05-17
6	13785	1961-03-08	Shietung	Legleitner	F	1997-06-04
7	14045	1953-06-28	Ymte	Alpin	M	1987-01-21
8	14813	1964-08-16	Naftali	Alpin	M	1985-10-21
9	15331	1953-08-16	Guther	Legleitner	F	1992-09-20

2. Who in the Production department were hired after the promotion of the last manager in that department?

```
SELECT *
FROM employees
JOIN dept_emp ON employees.emp_no = dept_emp.emp_no
WHERE dept_emp.dept_no = (
SELECT dept_no
FROM departments
WHERE dept_name = 'Production'
) AND employees.hire_date >
(SELECT MAX(from_date)
FROM dept_manager
JOIN departments ON dept_manager.dept_no = departments.dept_no
WHERE dept_name = 'Production');
```

3. Find the average salary of each department, from highest to lowest.

```
SELECT

dept_no,
AVG(salary) AS avg_salary

FROM

(SELECT

dept_no,
salary
FROM salaries

JOIN dept_emp ON salaries.emp_no = dept_emp.emp_no) AS tmp

GROUP BY tmp.dept_no
ORDER BY avg_salary DESC;
```

	dept_no •	avg_salary •
1	d007	80667.6058
2	d001	71913.2000
3	d002	70489.3649
4	d008	59665.1817
5	d004	59605.4825
6	d005	59478.9012
7	d009	58770.3665
8	d006	57251.2719
9	d003	55574.8794

4. Find the average salary for each type of Engineer, from highest to lowest.

```
SELECT

title,

AVG(salary) as avg_salary

FROM

(SELECT

title,

salary

FROM salaries

JOIN titles ON salaries.emp_no = titles.emp_no

WHERE title LIKE '%Engineer%') AS tmp

GROUP BY title

ORDER BY avg_salary DESC;
```

	title	\$	avg_salary	\$
1	Senior Engineer		60543.2191	
2	Engineer		59508.0397	
3	Assistant Engineer		59304.9863	