MI 1.02: Report #3

Due on

Nghiem Thi Phuong 5:30pm

Cao Anh Quan

Problem 1

1. All info of all employees

```
SELECT * FROM employees;
```

	emp_no	birth_date	first_name	last_name	gender	hire_date
1	10001	1953-09-02	Georgi	Facello	M	1986-06-26
2	10002	1964-06-02	Bezalel	Simmel	F	1985-11-21
3	10003	1959-12-03	Parto	Bamford	M	1986-08-28
4	10004	1954-05-01	Chirstian	Koblick	M	1986-12-01
5	10005	1955-01-21	Kyoichi	Maliniak	M	1989-09-12
6	10006	1953-04-20	Anneke	Preusig	F	1989-06-02
7	10007	1957-05-23	Tzvetan	Zielinski	F	1989-02-10
8	10008	1958-02-19	Saniya	Kalloufi	M	1994-09-15
9	10009	1952-04-19	Sumant	Peac	F	1985-02-18

2. All info of all departments

```
SELECT * FROM departments;
```

	dept_no	dept_name
1	d009	Customer Service
2	d005	Development
3	d002	Finance
4	d003	Human Resources
5	d001	Marketing
6	d004	Production
7	d006	Quality Management
8	d008	Research
9	d007	Sales

3. Full names of all employees

```
SELECT concat(first_name,' ',last_name) as full_name FROM employees;
```

	full_name
1	Georgi Facello
2	Bezalel Simmel
3	Parto Bamford
4	Chirstian Koblick
5	Kyoichi Maliniak
6	Anneke Preusig
7	Tzvetan Zielinski
8	Saniya Kalloufi
9	Sumant Peac
10	Duangkaew Piveteau
11	Mary Sluis

4. Names of all departments

```sql
SELECT dept_name FROM departments;
```

	dept_name
1	Customer Service
2	Development
3	Finance
4	Human Resources
5	Marketing
6	Production
7	Quality Management
8	Research
9	Sales

5. Full names of employees working in "Sales" department

```
(SELECT concat(first_name, ' ', last_name) AS full_name
 FROM employees
    JOIN dept_emp ON employees.emp_no = dept_emp.emp_no
    JOIN departments ON dept_emp.dept_no = departments.dept_no
5 WHERE dept_name = 'Sales')
UNION
(SELECT concat(first_name, ' ', last_name) AS full_name
 FROM employees
    JOIN dept_manager ON employees.emp_no = dept_manager.emp_no
10    JOIN departments ON dept_manager.dept_no = departments.dept_no
WHERE dept_name = 'Sales')
```

	full_name
1	Bezalel Simmel
2	Kazuhito Cappelletti
3	Bader Swan
4	Uri Lenart
5	Yinghua Dredge
6	Sanjiv Zschoche
7	Breannda Billingsley
8	Tse Herber
9	Charlene Brattka
10	Xinglin Eugenio
11	Jungsoon Syrzycki

6. Full names of male employees working in "Finance" department

```
(SELECT concat(first_name, ' ', last_name) AS full_name
 FROM employees
    JOIN dept_emp ON employees.emp_no = dept_emp.emp_no
    JOIN departments ON dept_emp.dept_no = departments.dept_no
5 WHERE gender = 'M' AND dept_name = 'Finance')
UNION
(SELECT concat(first_name, ' ', last_name) AS full_name
 FROM employees
    JOIN dept_manager ON employees.emp_no = dept_manager.emp_no
10    JOIN departments ON dept_manager.dept_no = departments.dept_no
WHERE gender = 'M' AND dept_name = 'Finance')
```

	full_name	⬍
1	Yinghua Dredge	
2	Premal Baek	
3	Ayakannu Skrikant	
4	Marla Brendel	
5	Chenyi Syang	
6	Kazuhito Encarnacion	
7	Miyeon Macedo	
8	Shrikanth Mahmud	

7. Salaries of female employees working in "Marketing" department

```sql
(SELECT
    employees.emp_no,
    salary
FROM employees
    JOIN dept_emp ON employees.emp_no = dept_emp.emp_no
    JOIN departments ON dept_emp.dept_no = departments.dept_no
    JOIN salaries ON employees.emp_no = salaries.emp_no
WHERE gender = 'F' AND dept_name = 'Marketing')
UNION
(SELECT
    employees.emp_no,
    salary
FROM employees
    JOIN dept_manager ON employees.emp_no = dept_manager.emp_no
    JOIN departments ON dept_manager.dept_no = departments.dept_no
    JOIN salaries ON employees.emp_no = salaries.emp_no
WHERE gender = 'F' AND dept_name = 'Marketing');
```

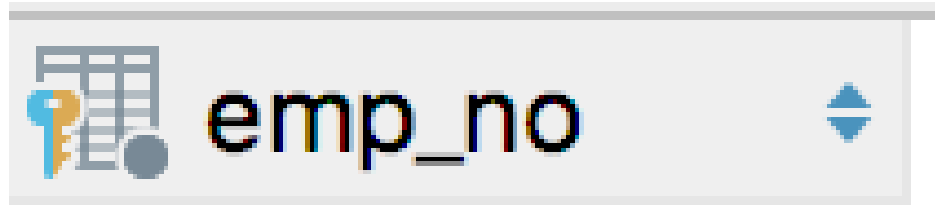|	emp_no	salary
1	10017	71380
2	10017	75538
3	10017	79510
4	10017	82163
5	10017	86157
6	10017	89619
7	10017	91985
8	10017	96122
9	10017	98522
10	10017	99651

8. Full names of employees who have the same last name as their manager

```
SELECT emp.full_name
FROM
   (SELECT
      concat(first_name, ' ', last_name) AS full_name,
      last_name,
      employees.emp_no                    AS empno
   FROM employees
      JOIN dept_emp ON employees.emp_no = dept_emp.emp_no) AS emp
   JOIN (SELECT
            last_name,
            employees.emp_no AS empno
         FROM employees
            JOIN dept_manager ON employees.emp_no = dept_manager.emp_no) AS man
      ON emp.last_name = man.last_name;
```

	full_name
1	Arumugam Ossenbruggen
2	Josyula Hofmeyr
3	Yuping Alpin
4	Shirish Wegerle
5	Yagil DasSarma
6	Yinlin Alpin
7	Janche Zhang
8	Ottavia Giarratana
9	Zita Minakawa
10	Sukumar Wegerle

9. Full names of managers who have been doing the job at least twice (use name g Count()(R) to count)

```
SELECT concat(first_name, ' ', last_name) AS full_name
FROM employees
   JOIN
   (SELECT emp_no
   FROM dept_manager
   GROUP BY emp_no
   HAVING count(*) > 1) AS R2 ON R2.emp_no = employees.emp_no;
```

10. Full names of employees who was paid more than $100000

```
SELECT concat(first_name, ' ', last_name) AS full_name
FROM employees
  JOIN salaries ON employees.emp_no = salaries.emp_no
WHERE salary > 100000;
```

	full_name	⬍
1	Kwee Schusler	
2	Kwee Schusler	
3	Kwee Schusler	
4	Charlene Brattka	
5	Charlene Brattka	
6	Charlene Brattka	
7	Charlene Brattka	
8	Charlene Brattka	
9	Charlene Brattka	
10	Charlene Brattka	
11	Charlene Brattka	
12	Charlene Brattka	
13	Xinglin Eugenio	

11. Names of all departments that have employees paid more than $100000

```
(SELECT dept_name
 FROM departments
   JOIN dept_emp ON departments.dept_no = dept_emp.dept_no
   JOIN salaries ON dept_emp.emp_no = salaries.emp_no
 WHERE salary > 100000)
UNION
(SELECT dept_name
 FROM departments
   JOIN dept_manager ON departments.dept_no = dept_manager.dept_no
   JOIN salaries ON salaries.emp_no = dept_manager.emp_no
 WHERE salary > 100000);
```

	dept_name
1	Customer Service
2	Development
3	Finance
4	Human Resources
5	Marketing
6	Production
7	Quality Management
8	Research
9	Sales