

MI 1.02: Report #3

Due on Tuesday, November 7, 2017

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 Elia

4. Names of all departments

```
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	Breannnda 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

```
(SELECT
    employees.emp_no,
    salary
FROM employees
5   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
10 (SELECT
    employees.emp_no,
    salary
FROM employees
   JOIN dept_manager ON employees.emp_no = dept_manager.emp_no
15  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

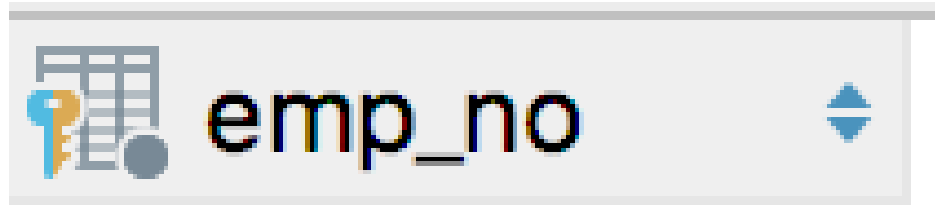
8. Full names of employees who have the same last name as their manager

```
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
5 WHERE salary > 100000)
UNION
(SELECT dept_name
FROM departments
  JOIN dept_manager ON departments.dept_no = dept_manager.dept_no
10 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