MI 1.02: Report #3

Due on Tuesday, November 7, 2017

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

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Problem 1

1. All info of all employees

```
INSERT INTO departments VALUES ('d010', 'Research and Development');
   INSERT INTO departments VALUES ('d011', 'Marketing and Sales');
  UPDATE IGNORE dept_emp
  SET dept_no = 'd010'
  WHERE dept_no = 'd005' OR dept_no = 'd008';
  UPDATE IGNORE dept_emp
   SET dept_no = 'd011'
  WHERE dept_no = 'd001' OR dept_no = 'd007';
  UPDATE IGNORE dept_manager
  SET dept_no = 'd010'
  WHERE dept_no = 'd005' OR dept_no = 'd008';
  UPDATE IGNORE dept_manager
15 SET dept_no = 'd011'
  WHERE dept_no = 'd001' OR dept_no = 'd007';
  DELETE FROM departments
  WHERE dept_no = 'd005' OR dept_no = 'd008' OR dept_no = 'd001' OR dept_no = 'd007';
```

2. All info of all departments

```
SELECT * FROM departments;
```

3. Full names of all employees

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

4. Names of all departments

```
SELECT dept_name FROM departments;
```

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

WHERE dept_name = 'Sales';
```

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

WHERE gender = 'M' AND dept_name = 'Finance';
```

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

```
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';
```

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,
5
       last_name,
                                           AS empno
       employees.emp_no
     FROM employees
       JOIN dept_emp ON employees.emp_no = dept_emp.emp_no) AS emp
    JOIN (SELECT
             last_name,
10
             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;
```

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;
```

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