

Exercice Optimization

```
CREATE TABLE employees (  
  
    emp_no      INT          NOT NULL,  
    birth_date  DATE         NOT NULL,  
    first_name  VARCHAR(14)  NOT NULL,  
    last_name   VARCHAR(16)  NOT NULL,  
    gender      ENUM ('M', 'F') NOT NULL,  
    hire_date   DATE         NOT NULL,  
);
```

```
CREATE TABLE departments (  
  
    dept_no     CHAR(4)      NOT NULL,  
    dept_name   VARCHAR(40)  NOT NULL  
);
```

```
CREATE TABLE dept_manager (  
  
    dept_no     CHAR(4)      NOT NULL,  
    emp_no      INT          NOT NULL,  
    from_date   DATE         NOT NULL,  
    to_date     DATE         NOT NULL  
);
```

```
CREATE TABLE dept_emp (  
  
    emp_no      INT          NOT NULL,  
    dept_no     CHAR(4)      NOT NULL,  
    from_date   DATE         NOT NULL,  
    to_date     DATE         NOT NULL  
);
```

```
CREATE TABLE titles (  
  
    emp_no      INT          NOT NULL,
```

```

title      VARCHAR(50)      NOT NULL,
from_date  DATE           NOT NULL,
to_date    DATE);
CREATE TABLE salaries (

emp_no     INT            NOT NULL,
salary     INT            NOT NULL,
from_date  DATE           NOT NULL,
to_date    DATE           NOT NULL
);

```

- Requete pour avoir les employées feminin:

```
select * from employees where last_name=' titi' OR gender=' F'
```

- Requete RH pour faire de la BI

```

SELECT T1.emp_no, T1.gender, SUM(T1.salary), T1.hire_date, T1.birth_date from
(SELECT employees.emp_no, employees.gender, salaries.salary, employees.hire_date,
employees.birth_date
FROM employees INNER JOIN salaries ON employees.emp_no = salaries.emp_no) AS T1 GROUP BY
T1.salary

```

- Requete les employées Feminines ainsi que les noms des département

```

SELECT departments.dept_name, employees.first_name, employees.last_name
FROM employees INNER JOIN dept_emp ON dept_emp.emp_no = employees.emp_no
INNER JOIN departments ON dept_emp.dept_no = departments.dept_no
WHERE employees.gender = ' F'

```

- Requete pour avoir les salaire des senior staff

```

SELECT employees.first_name, employees.last_name, titles.title, salaries.salary
FROM employees INNER JOIN titles ON titles.emp_no = employees.emp_no
INNER JOIN salaries ON salaries.emp_no = employees.emp_no WHERE titles.title LIKE '%staff%'

```

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