

# Lab work report 6 - SUB QUERY

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November 12, 2016

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

```
select * from employees
where last_name in
(select last_name
from employees
join dept_manager
on dept_manager.emp_no = employees.emp_no
join departments
on departments.dept_no = dept_manager.dept_no
where dept_name = "Finance");
```

	493266		1959-05-28		Constantijn		Legleitner		M
	1986-05-25								
	493332		1958-12-20		Anoosh		Legleitner		M
	1988-11-10								
	493821		1963-06-03		Aiichiro		Legleitner		F
	1988-04-07								
	495608		1955-01-02		Gift		Legleitner		M
	1994-04-28								
	496062		1955-01-18		Xinan		Legleitner		M
	1994-05-02								
	497267		1956-05-24		Gilbert		Alpin		F
	1990-07-21								
	497479		1960-09-03		Ramalingam		Alpin		M
	1992-05-03								
	497947		1963-08-15		Ekawit		Alpin		M
	1995-06-29								
	497954		1957-12-17		Hilary		Legleitner		M
	1991-08-07								
	498115		1957-10-11		Geoffry		Alpin		M
	1985-10-01								
	498634		1964-02-17		Heping		Alpin		M
	1987-12-14								
	499867		1962-01-25		Hidde		Alpin		F
	1988-10-13								

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408 rows in set (0.14 sec)

2. Who in the “Production” department were hired after the promotion of the last

manager in that department?

```
select * from employees
where emp_no in
(select emp_no
from departments
join dept_emp on
dept_emp.dept_no = departments.dept_no
where dept_name = "Production") and
hire_date >= (select max(hire_date) from dept_manager
where dept_no = (select dept_no from departments
where dept_name = "Production"))
order by hire_date desc limit 0,1;
```

emp_no	birth_date	first_name	last_name	gender	hire_date
428377	1957-05-09	Yucai	Gerlach	M	2000-01-23

1 row in set (0.20 sec)

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

```
select dept_name, avg(salary) as avg_salary
from dept_emp join
(select emp_no, avg(salary) as average_salary
from salaries
group by emp_no) as t1
on dept_emp.emp_no = t1.emp_no
join departments
on departments.dept_no = dept_emp.dept_no
group by departments.dept_no
order by avg_salary desc;
```

dept_name	avg_salary
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Marketing <b>and</b> Sales	75852.69558780	
Finance	68061.43501801	
Production	57253.31382027	
Research <b>and</b> Development	57188.90672100	
Customer Service	56480.08591880	
Quality Management	54892.93507273	
Human Resources	53214.29085744	

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7 rows in set (1.20 sec)

4. Find the average salary of each job title, from highest to lowest.

```

select title , avg(average_salary) as avg_salary from
titles
join
(select emp_no, avg(salary) as average_salary
from salaries
group by emp_no) as t1
on titles.emp_no = t1.emp_no
group by title
order by avg_salary desc;

```

title	avg_salary	
Senior Staff	69119.55058257	
Staff	66956.82969188	
Manager	66044.38422083	
Senior Engineer	59144.76835191	
Engineer	57244.45845623	
Technique Leader	57034.81413021	
Assistant Engineer	56963.53043254	

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7 rows in set (1.40 sec)