

Report.7.View

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

```
create view ManagerLastName as
select last_name from employees
join dept_manager on employees.emp_no = dept_manager.emp_no
join departments on departments.dept_no=dept_manager.dept_no
and dept_name='Finance';

select distinct employees.emp_no,concat(first_name,'_',last_name)
as fullname
from employees join dept_emp on employees.emp_no=dept_emp.emp_no
      join departments on departments.dept_no=dept_emp.dept_no
where last_name in (select * from ManagerLastName);
```

487848	Arvind Alpin
488517	Shaw Alpin
488519	Qiwen Alpin
488676	Kristine Alpin
489813	Conrado Alpin
490322	Uri Legleitner
493063	Danil Alpin
493266	Constantijn Legleitner
493332	Anoosh Legleitner
493821	Aiichiro Legleitner
495608	Gift Legleitner
496062	Xinan Legleitner
497267	Gilbert Alpin
497479	Ramalingam Alpin
497947	Ekawit Alpin
497954	Hilary Legleitner
498115	Geoffry Alpin
498634	Heping Alpin
499867	Hidde Alpin

-----+

408 rows in set (0.16 sec)

2 Who in the “Production” department were hired after the promotion of the last manager in that department?

```

create view ManagerPromotion as
select from_date from dept_manager
where dept_no = (select dept_no
                  from departments where dept_name='Production')
order by from_date desc limit 0,1;

select employees.emp_no, concat(first_name, ' ', last_name)
as fullname
from employees
join dept_emp on employees.emp_no=dept_emp.emp_no
join departments on departments.dept_no=dept_emp.dept_no
and dept_name='Production'
where from_date > (select * from ManagerPromotion);

```

499811	Danae Sevcikova	
499833	Shirish Rettelbach	
499855	Constantine Michaels	
499856	Yoshinari Theuretzbacher	
499864	Teiji Tsukuda	
499874	Dharmaraja Range	
499913	Masako Heiserman	
499916	Florina Cusworth	
499918	Hilary Rodiger	
499923	Sergi Melton	
499925	Tuval Hardjono	
499948	Cordelia Paludetto	
499971	Uwe Uludag	
499974	Shuichi Piazza	
499983	Uri Juneja	
499993	DeForest Mullainathan	
499995	Dekang Lichtner	
499999	Sachin Tsukuda	

+-----+
19513 rows in set (0.14 sec)

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

```

create view AvgSalary as
select dept_emp.dept_no, dept_name, avg(salary) as average
from salaries
join employees on employees.emp_no=salaries.emp_no
join dept_emp on dept_emp.emp_no = employees.emp_no
join departments on dept_emp.dept_no = departments.dept_no
group by dept_emp.dept_no ;

select dept_name, average from AvgSalary
order by average desc;

```

```
mysql> select dept_name, average from
-> ( select dept_emp.dept_no, dept_name, avg(salary) as average
-> from salaries join employees on employees.emp_no=salaries.emp_no
-> join dept_emp on dept_emp.emp_no = employees.emp_no
-> join departments on dept_emp.dept_no = departments.dept_no
-> group by dept_emp.dept_no ) as average1
[
-> order by average desc;
```

dept_name	average
Sales	80667.6058
Marketing	71913.2000
Finance	70489.3649
Research	59665.1817
Production	59605.4825
Development	59478.9012
Customer Service	58770.3665
Quality Management	57251.2719
Human Resources	55574.8794

```
9 rows in set (13.63 sec)
```

4 Find the average salary for each type of Engineer, from highest to lowest.

```
create view AvgSal as
select emp_no, avg(salary) as avgsalary
from salaries group by emp_no;

select title , avg(avgsalary) as averagesalary
from AvgSal join titles on AvgSal.emp_no=titles.emp_no
and title like '%Engineer%'
group by title
order by averagesalary desc;
```

```
mysql> select title, avg(avgsalary) as averagesalary
-> from
-> (select emp_no, avg(salary) as avgsalary
-> from salaries group by emp_no) as average
-> join titles on average.emp_no=titles.emp_no
-> and title like '%Engineer%'
-> group by title
-> order by averagesalary desc;
```

title	averagesalary
Senior Engineer	59144.76835191
Engineer	57244.45845623
Assistant Engineer	56963.53043254

```
3 rows in set (2.19 sec)
```