

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,dept_manager,departments
WHERE
employees.emp_no = dept_manager.emp_no
AND
dept_manager.dept_no = departments.dept_no
AND
dept_name = 'Finance'
);
```

490322	1958-05-06	Uri	Legleitner	M	1995-09-25
493063	1955-04-24	Danil	Alpin	F	1997-02-05
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

408 rows in set (0.61 sec)

2. Who in the "Production" department were hired after the promotion of the last manager in that department?

```
SELECT CONCAT(first_name,' ',last_name),hire_date
FROM employees,dept_emp,departments
WHERE
employees.emp_no = dept_emp.emp_no
AND
dept_emp.dept_no = departments.dept_no
AND
dept_name='Production' AND hire_date >
(
SELECT MAX(from_date) FROM dept_manager,departments
```

```

WHERE
dept_manager.dept_no = departments.dept_no
AND
dept_name = 'Production'
);

```

Aria Millington	1997-01-02
Paddy Serdy	1997-01-28
Uzi Ravishankar	1998-02-03
Shrikanth Luiz	1996-11-07
Mohan England	1997-11-13
Ziva Veevers	1996-11-03
Ortrun Delaune	1998-01-03
Reuven Avouris	1997-02-03
Arun Rajaraman	1997-09-07
Yoshinari Theuretzbacher	1997-05-17
Florina Cusworth	1997-05-18
DeForest Mullainathan	1997-04-07
Sachin Tsukuda	1997-11-30

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```

3758 rows in set (0.69 sec)

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

```

SELECT dept_no,AVG(Avg_Salary) AS Av_Salary FROM
(
SELECT salaries.emp_no,AVG(salary) AS Avg_Salary FROM salaries
JOIN
employees ON salaries.emp_no = employees.emp_no
GROUP BY salaries.emp_no
)AS temp_table
JOIN dept_emp on temp_table.emp_no=dept_emp.emp_no
GROUP BY dept_no
ORDER BY Av_Salary DESC;

```

dept_no	Av_Salary	
d011	75852.69558780	
d002	68061.43501801	
d004	57253.31382027	
d010	57188.90672100	
d009	56480.08591880	
d006	54892.93507273	
d003	53214.29085744	

```
+-----+-----+
7 rows in set (4.85 sec)
```

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

```
SELECT title,AVG(Avg_Salary) AS Av_Salary FROM
(
SELECT title,AVG(salary) AS Avg_Salary FROM titles
JOIN
employees ON titles.emp_no = employees.emp_no
JOIN
salaries ON employees.emp_no = salaries.emp_no
WHERE title LIKE '%Engineer%'
GROUP BY title
)AS temp_table
GROUP BY title
ORDER BY Av_Salary DESC;
```

```
+-----+-----+
| title          | Av_Salary      |
+-----+-----+
| Senior Engineer | 60543.21910000 |
| Engineer        | 59508.03970000 |
| Assistant Engineer | 59304.98630000 |
+-----+-----+
3 rows in set (12.18 sec)
```