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_emp.dept_no='d004' AND YEAR(hire_date) >
(
SELECT YEAR(from_date) FROM dept_manager
```

```
WHERE dept_no = 'd004'
ORDER BY dept_no DESC
LIMIT 0,1
);

| Cordelia Paludetto            | 1993-01-28 |
| Aron Lindqvist                | 1990-01-07 |
| Tuval Tempesti                | 1990-08-09 |
| Srinidhi Theuretzbacher       | 1989-12-17 |
| Lillian Setiz                 | 1991-11-08 |
| Holgard Nanard                | 1988-07-04 |
| Yongqiao Dalton               | 1995-06-20 |
| Randy Matzov                  | 1988-11-10 |
| Uwe Uludag                    | 1989-02-26 |
| Shuichi Piazza                | 1989-09-16 |
| Uri Juneja                    | 1989-08-28 |
| DeForest Mullainathan         | 1997-04-07 |
| Navin Argence                 | 1990-04-24 |
| Dekang Lichtner               | 1993-01-12 |
| Zito Baaz                     | 1990-09-27 |
| Sachin Tsukuda                | 1997-11-30 |
+-------------------------------+------------+
64697 rows in set (0.71 sec)
```

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

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

+-------------------------+------------+
| dept_name               | Avg_Salary |
+-------------------------+------------+
| Marketing and Sales     | 78220.6010 |
| Finance                 | 70489.3649 |
| Production              | 59605.4825 |
```

```
| Research and Development | 59517.6088 |
| Customer Service         | 58770.3665 |
| Quality Management       | 57251.2719 |
| Human Resources          | 55574.8794 |
+--------------------------+------------+
7 rows in set (4.64 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
GROUP BY title
)AS temp_table
GROUP BY title
ORDER BY Av_Salary DESC;


+-------------------+----------------+
| title             | Av_Salary      |
+-------------------+----------------+
| Senior Staff      | 70470.83530000 |
| Staff             | 69309.10230000 |
| Manager           | 66924.27060000 |
| Senior Engineer   | 60543.21910000 |
| Engineer          | 59508.03970000 |
| Assistant Engineer | 59304.98630000 |
| Technique Leader  | 59294.37420000 |
+-------------------+----------------+
7 rows in set (5.86 sec)
```