Lab work report 7 - View Cao Anh Quan - ICT Master November 12, 2016

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

```
create view last_name_manager as
        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";
Query OK, 0 rows affected (0.02 sec)
select * from employees
where last_name in
(select last_name from last_name_manager);
  493266 | 1959-05-28 | Constantijn
                                       | Legleitner | M
 1986-05-25
                                       | Legleitner | M
  493332 | 1958-12-20 | Anoosh
 1988-11-10
  493821 | 1963-06-03 | Aiichiro
                                       | Legleitner | F
  1988 - 04 - 07
  495608 | 1955-01-02 | Gift
                                       | Legleitner | M
  1994-04-28
  496062 \mid 1955-01-18 \mid Xinan
                                       | Legleitner | M
  1994 - 05 - 02
  497267 | 1956-05-24 | Gilbert
                                       Alpin
  1990-07-21
  497479 | 1960-09-03 | Ramalingam
                                       Alpin
                                                    | M
  1992-05-03
  497947 | 1963-08-15 | Ekawit
                                       Alpin
                                                    \mid M
  1995-06-29
                                       | Legleitner | M
  497954 | 1957-12-17 | Hilary
 1991-08-07
  498115 | 1957-10-11 | Geoffry
                                        Alpin
                                                    | M
 1985-10-01
  498634 | 1964-02-17 | Heping
                                       Alpin
                                                    | M
 1987 - 12 - 14
```

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

```
create view emp_no_production as
        select emp_no
        from departments
        join dept_emp
                on dept_emp.dept_no = departments.dept_no
        where dept_name = "Production";
Query OK, 0 rows affected (0.01 sec)
create view max_from_date as
        select max(from_date) as max_date from dept_manager
        where dept_no = (select dept_no from departments
        where dept_name = "Production");
Query OK, 0 rows affected (0.01 sec)
select * from employees
where emp_no in
(select emp_no from emp_no_production)
and
hire_date >= (select max_date from max_from_date)
```

	63851	1957-07-20	Mohit		Bergere
	M	1996-08-31			
	208806	1953-07-21	Chinya		Naudin
	M	1996-08-31			T 0 1 1 .
ļ	275246	1958-10-09	Hatem		Larfeldt
ļ	M	1996-08-31	 	1	Q ·
	439670 F	$\begin{vmatrix} 1960-04-13 \\ 1996-08-31 \end{vmatrix}$	Supot		Siegrist
	T,	1990-00-31			

order by hire_date desc;

240179	1956-04-29	Fumitaka	Pettit
F	1996-08-31		
283373	1964-11-03	Kellie	Georgakopoulos
F	1996-08-31		
262599	1955-12-22	Maria	Mullainathan
M	1996-08-31		
255685	1956-10-30	Dines	Bahi
M	1996-08-31		
484298	1958-05-27	Henk	Demke
F	1996-08-31		
239704	1952-08-01	Eldridge	Bernatsky
M	1996-08-30		
286545	1954-06-25	Yuuichi	Heiserman
F	1996-08-30		
475381	1958-06-08	Mokhtar	Detkin
M	1996-08-30		
41427	1953-10-26	Ekawit	Kusakabe
M	1996-08-30		
418548	1953-04-13	Pranay	Molenkamp
M	1996-08-30		
233057	1962-10-01	Sibyl	Molenaar
M	1996-08-30		
+	1	 	+

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

3764 rows in set (0.21 sec)

group by departments.dept_no
order by avg_salary desc;

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

7 rows in set (1.20 sec)

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

group by title
order by avg_salary desc;

title	avg_salary
Senior Engineer Engineer Assistant Engineer	$oxed{ \mid 59144.76835191 \mid 57244.45845623 \mid 56963.53043254 \mid }$

3 rows in set (1.30 sec)