

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

```
CREATE VIEW VwManagerFinance
AS
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';

SELECT * FROM employees, VwManagerFinance
WHERE employees.last_name = VwManagerFinance.last_name;
```

	490322		1958-05-06		Uri		Legleitner		M		1995-09-25		Legleitner
	493063		1955-04-24		Danil		Alpin		F		1997-02-05		Alpin
	493266		1959-05-28		Constantijn		Legleitner		M		1986-05-25		Legleitner
	493332		1958-12-20		Anoosh		Legleitner		M		1988-11-10		Legleitner
	493821		1963-06-03		Aiichiro		Legleitner		F		1988-04-07		Legleitner
	495608		1955-01-02		Gift		Legleitner		M		1994-04-28		Legleitner
	496062		1955-01-18		Xinan		Legleitner		M		1994-05-02		Legleitner
	497267		1956-05-24		Gilbert		Alpin		F		1990-07-21		Alpin
	497479		1960-09-03		Ramalingam		Alpin		M		1992-05-03		Alpin
	497947		1963-08-15		Ekawit		Alpin		M		1995-06-29		Alpin
	497954		1957-12-17		Hilary		Legleitner		M		1991-08-07		Legleitner
	498115		1957-10-11		Geoffry		Alpin		M		1985-10-01		Alpin
	498634		1964-02-17		Heping		Alpin		M		1987-12-14		Alpin
	499867		1962-01-25		Hidde		Alpin		F		1988-10-13		Alpin

408 rows in set (0.22 sec)

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

```
CREATE VIEW VwProductionDept
AS
SELECT dept_manager.dept_no AS dept_no,MAX(from_date) as from_date
FROM dept_manager,departments
WHERE
dept_manager.dept_no = departments.dept_no
AND
dept_name = 'Production';
```

```

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

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| Jaihie Suwa | 1998-03-07 |
| 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 |
+-----+-----+
3758 rows in set (0.97 sec)

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

```

CREATE VIEW VwAVGDepartment
AS
SELECT salaries.emp_no AS emp_no,AVG(salary) AS Avg_Salary FROM salaries
JOIN
employees ON salaries.emp_no = employees.emp_no
GROUP BY salaries.emp_no;

SELECT dept_no,AVG(Avg_Salary) AS Av_Salary FROM VwAVGDepartment
JOIN
dept_emp on VwAVGDepartment.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 (4.63 sec)

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

```
CREATE VIEW VwAVGJob
AS
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;

SELECT title,AVG(Avg_Salary) AS Av_Salary FROM VwAVGJob
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 (3.23 sec)