# Information Systems: Labwork 6

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### Labwork 6

Who have the same name as the managers of the Finance department?

```
1 SELECT * FROM EMPLOYEES WHERE CONCAT(FIRST_NAME, " ", LAST_NAME) IN (
2 SELECT CONCAT(FIRST_NAME, " ", LAST_NAME)
3 FROM EMPLOYEES JOIN DEPT_MANAGER ON EMPLOYEES.EMP_NO = DEPT_MANAGER.EMP_NO JOIN
DEPARTMENTS ON DEPT_MANAGER.DEPT_NO = DEPARTMENTS.DEPT_NO
WHERE DEPT_NAME = "Finance");
```

#### Output:

1 -						<del> </del>	
2	emp_no	birth_date	${\tt first\_name}$	last_name	gender	hire_date	
3						<del> </del>	
4	110085	1959-10-28	Ebru	Alpin	M	1985-01-01	
5	110114	1957 - 03 - 28	Isamu	Legleitner	F	1985-01-14	
6						<del> </del>	
7 2	7 2 rows in set $(0.32 \text{ sec})$						

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

```
SELECT EMPLOYEES.EMP.NO, CONCAT(FIRST_NAME, " ", LAST_NAME), HIRE_DATE AS FULL_NAME
FROM EMPLOYEES JOIN DEPT_EMP ON EMPLOYEES.EMP_NO = DEPT_EMP.EMP_NO
WHERE DEPT_NO = (SELECT DEPT_NO FROM DEPARTMENTS WHERE DEPT_NAME = "Production")
AND HIRE_DATE >
(SELECT MAX(FROM_DATE) FROM DEPT_MANAGER_JOIN DEPARTMENTS ON DEPT_MANAGER.DEPT_NO = DEPARTMENTS.DEPT_NO
WHERE DEPT_NAME = "Production");
```

#### Output:

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

```
SELECT DEPT.NO, AVG(AVG.EMP) AS AVG.DEPT FROM DEPT.EMP JOIN

(SELECT EMP.NO, AVG(SALARY) AS AVG.EMP FROM SALARIES GROUP BY EMP.NO) AS AVG.SALARY.EMP

ON DEPT.EMP.NO = AVG.SALARY.EMP.NO

GROUP BY DEPT.NO ORDER BY AVG.DEPT DESC;
```

#### Output:

```
| DEPT_NO
              AVG_DEPT
  | d007
              78313.22247361
    d001
              69541.61771136
    d002
              68061.43501801
6
    d008
              57322.03105659
    d004
              57253.31382027
    d005
              57152.20845497
9
10
    d009
              56480.08591880
              54892.93507273
    d006
11
    d003
              53214.29085744
12
9 rows in set (3.02 sec)
```

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

```
1 SELECT TITLE, AVG(AVGEMP) AS AVG.TITLE FROM TITLES JOIN
2 (SELECT EMP.NO, AVG(SALARY) AS AVG.EMP FROM SALARIES GROUP BY EMP.NO) AS AVG.SALARY.EMP
3 ON TITLES.EMP.NO = AVG.SALARY.EMP.NO
4 WHERE TITLE LIKE '%Engineer%'
5 GROUP BY TITLE ORDER BY AVG.TITLE DESC;
```

#### Output:

