

7. Employees, osa 2

a)

```
mysql> SELECT * FROM employees ORDER BY last_name LIMIT 10;
```

emp_no	birth_date	first_name	last_name	gender	hire_date
11761	1964-07-17	Bartek	Aamodt	M	1991-06-12
15427	1959-03-06	Aluzio	Aamodt	M	1985-03-03
18182	1963-02-23	Dekang	Aamodt	F	1988-05-25
16572	1956-11-26	Matt	Aamodt	M	1987-06-16
12791	1960-06-16	Mokhtar	Aamodt	M	1994-08-14
12516	1958-06-25	Sreenivas	Aamodt	F	1990-03-06
12982	1952-12-08	Sachem	Aamodt	F	1992-01-11
17400	1962-03-22	Basim	Aamodt	F	1991-09-15
19898	1957-03-09	Vidar	Aamodt	M	1988-08-06
17885	1954-02-01	Takanari	Aamodt	M	1996-08-19

b)

```
mysql> SELECT * FROM employees ORDER BY last_name, first_name LIMIT 10;
```

emp_no	birth_date	first_name	last_name	gender	hire_date
258641	1961-05-23	Abdelkader	Aamodt	M	1994-12-02
258005	1953-02-17	Adhemar	Aamodt	F	1991-01-21
455773	1960-05-04	Aemilian	Aamodt	M	1988-04-21
436560	1959-03-16	Alagu	Aamodt	F	1991-10-17
266651	1959-05-28	Aleksander	Aamodt	F	1989-03-29
487598	1962-03-03	Alexius	Aamodt	M	1994-12-30
216963	1960-07-16	Alois	Aamodt	M	1995-08-24
15427	1959-03-06	Aluzio	Aamodt	M	1985-03-03
100860	1964-06-20	Amabile	Aamodt	F	1993-02-06
107070	1954-04-24	Anestis	Aamodt	M	1990-10-30

c)

```
mysql> SELECT * FROM employees ORDER BY hire_date DESC LIMIT 5;
```

emp_no	birth_date	first_name	last_name	gender	hire_date
463807	1964-06-12	Bikash	Covnot	M	2000-01-28
428377	1957-05-09	Yucai	Gerlach	M	2000-01-23
499553	1954-05-06	Hideyuki	Delgrande	F	2000-01-22
222965	1959-08-07	Volkmar	Perko	F	2000-01-13
47291	1960-09-09	Ulf	Flexer	M	2000-01-12

d)

```
mysql> SELECT first_name, last_name, salary FROM employees
-> JOIN salaries ON employees.emp_no = salaries.emp_no
-> ORDER BY salary DESC LIMIT 1;
```

first_name	last_name	salary
Tokuyasu	Pesch	158220

1 row in set (2.21 sec)

e)

```
mysql> SELECT first_name, last_name, salary FROM employees
-> JOIN salaries ON employees.emp_no = salaries.emp_no
-> ORDER BY salary LIMIT 1;
```

first_name	last_name	salary
Olivera	Baek	38623

1 row in set (2.18 sec)

f)

```
mysql> SELECT first_name, last_name, salary FROM employees
-> JOIN salaries ON employees.emp_no = salaries.emp_no
-> WHERE salary > 150000 ORDER BY salary DESC;
```

first_name	last_name	salary
Tokuyasu	Pesch	158220
Tokuyasu	Pesch	157821
Honesty	Mukaidono	156286
Xiahua	Whitcomb	155709
Sanjai	Luders	155513
Tsutomu	Alameldin	155377
Tsutomu	Alameldin	155190

g)

Sales:

```
mysql> SELECT COUNT(*) AS sales_total FROM departments JOIN dept_emp ON departments.dept_no
-> = dept_emp.dept_no WHERE departments.dept_name = 'Sales';
```

sales_total
52245

1 row in set (0.01 sec)

```
mysql> SELECT COUNT(*) AS marketing_total FROM departments JOIN dept_emp ON departments.dept_no
-> = dept_emp.dept_no WHERE departments.dept_name = 'Marketing';
+-----+
| marketing_total |
+-----+
|          20211 |
+-----+
1 row in set (0.01 sec)
```

h)

```
SELECT employees.first_name, employees.last_name, departments.dept_name
FROM dept_manager
JOIN employees ON dept_manager.emp_no = employees.emp_no
JOIN departments ON dept_manager.dept_no = departments.dept_no;
```

```
mysql> SELECT employees.first_name, employees.last_name, departments.dept_name
->
-> FROM dept_manager
->
-> JOIN employees ON dept_manager.emp_no = employees.emp_no
->
-> JOIN departments ON dept_manager.dept_no = departments.dept_no;
```

first_name	last_name	dept_name
Tonny	Butterworth	Customer Service
Marjo	Giarratana	Customer Service
Xiaobin	Spinelli	Customer Service
Yuchang	Weedman	Customer Service
DeForest	Hagimont	Development
Leon	DasSarma	Development
Ebru	Alpin	Finance

i)

```
SELECT AVG(salaries.salary) FROM employees
JOIN dept_emp ON employees.emp_no = dept_emp.emp_no
JOIN departments ON dept_emp.dept_no = departments.dept_no
JOIN salaries ON employees.emp_no = salaries.emp_no
WHERE departments.dept_name = 'Sales';
```

```
mysql> SELECT AVG(salaries.salary) FROM employees
->
-> JOIN dept_emp ON employees.emp_no = dept_emp.emp_no
->
-> JOIN departments ON dept_emp.dept_no = departments.dept_no
->
-> JOIN salaries ON employees.emp_no = salaries.emp_no
->
-> WHERE departments.dept_name = 'Sales';
+-----+
| AVG(salaries.salary) |
+-----+
|          80667.6058 |
+-----+
1 row in set (0.86 sec)
```

SELECT AVG(salaries.salary) FROM employees

JOIN dept_emp ON employees.emp_no = dept_emp.emp_no

JOIN departments ON dept_emp.dept_no = departments.dept_no

JOIN salaries ON employees.emp_no = salaries.emp_no

WHERE departments.dept_name = 'Marketing';

```
mysql> SELECT AVG(salaries.salary) FROM employees
->
-> JOIN dept_emp ON employees.emp_no = dept_emp.emp_no
->
-> JOIN departments ON dept_emp.dept_no = departments.dept_no
->
-> JOIN salaries ON employees.emp_no = salaries.emp_no
->
-> WHERE departments.dept_name = 'Marketing';
+-----+
| AVG(salaries.salary) |
+-----+
|          71913.2000 |
+-----+
1 row in set (0.58 sec)
```