

## Employees osa 2.

a) Tulosta kymmenen aakkosjärjestyksessä ensimmäisen työntekijän tiedot sukunimen mukaan lajiteltuna.  
Vihje: LIMIT rajoittaa tulostettavien tietojen määrän.

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

```
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

10 rows in set (0.13 sec)

b) Sama kuten edellä, mutta sukunimen JA etunimen mukaan lajiteltuna.

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

```
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

10 rows in set (0.14 sec)

c) Tulosta viiden viimeksi palkatun työntekijän tiedot.

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

```
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

5 rows in set (0.12 sec)

d) Kenellä on suurin palkka? Tulosta etunimi, sukunimi ja palkka.

```
mysql> SELECT first_name, last_name, salary FROM employees JOIN salaries ON employees.emp_no = salaries.emp_no WHERE salary = (select MAX(salary) from salaries);
```

first_name	last_name	salary
Tokuyasu	Pesch	158220

1 row in set (1.29 sec)

e) Kenellä on pienin palkka ? Tulosta etunimi, sukunimi ja palkka.

```
mysql> SELECT first_name, last_name, salary FROM employees JOIN salaries ON employees.emp_no = salaries.emp_no WHERE salary = (select MIN(salary) from salaries);
```

```
mysql> SELECT first_name, last_name, salary FROM employees JOIN salaries ON emp_no = salaries.emp_no WHERE salary = (select MIN(salary) from salaries);
```

first_name	last_name	salary
Olivera	Baek	38623

1 row in set (1.31 sec)

f) Tulosta työntekijät (etunimi, sukunimi, palkka), jotka ansaitsevat yli 150000.

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

```
es.emp_no WHERE salaries.salary > 150000;
```

first_name	last_name	salary
Tokuyasu	Pesch	151115
Tokuyasu	Pesch	153166
Tokuyasu	Pesch	153458
Tokuyasu	Pesch	157821
Tokuyasu	Pesch	158220
Ibibia	Junet	150345
Xiahua	Whitcomb	151929
Xiahua	Whitcomb	155709
Lansing	Kambil	150052
Willard	Baca	151768
Willard	Baca	154459
Tsutomu	Alameldin	151484
Tsutomu	Alameldin	154885
Tsutomu	Alameldin	155377
Tsutomu	Alameldin	154888
Tsutomu	Alameldin	155190
Charmane	Griswold	151596
Charmane	Griswold	153715
Weicheng	Hatcliff	150994
Weicheng	Hatcliff	152687
Mitsuyuki	Stanfel	152220
Sanjai	Luders	150378
Sanjai	Luders	154227
Sanjai	Luders	155513
Honesty	Mukaidono	150754
Honesty	Mukaidono	152576
Honesty	Mukaidono	156286
Weijing	Chenoweth	151080
Weijing	Chenoweth	152710
Shin	Birdsall	150467
Shin	Birdsall	152412
Mohammed	Moehrke	150740
Lidong	Meriste	150993
Lidong	Meriste	151565
Lidong	Meriste	152208
Lidong	Meriste	154376

6 rows in set (1.74 sec)

g) Kuinka monta työntekijää työskentelee myynnissä (Sales) ?

```
mysql> SELECT COUNT(*) as sales_count FROM employees JOIN dept_emp ON employees.emp_no =
dept_emp.emp_no JOIN departments ON dept_emp.dept_no = departments.dept_no WHERE
departments.dept_name = 'Sales';
```

```
mysql> SELECT COUNT(*) as sales_count FROM en
pt_emp.dept_no = departments.dept_no WHERE de
+-----+
| sales_count |
+-----+
|         52245 |
+-----+
1 row in set (0.25 sec)
```

g2) Entä markkinoinnissa (Marketing) ?

```
mysql> SELECT COUNT(*) as marketing_count FROM employees JOIN dept_emp ON employees.emp_no =
dept_emp.emp_no JOIN departments ON dept_emp.dept_no = departments.dept_no WHERE
departments.dept_name = 'Marketing';
```

```
mysql> SELECT COUNT(*) as marketing_c
N dept_emp.dept_no = departments.dept
+-----+
| marketing_count |
+-----+
|          20211 |
+-----+
1 row in set (0.17 sec)
```

h) Tulosta kaikkien osastonjohtajien (Department Managers) etunimi, sukunimi ja osasto, jolla työskentelee.

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

first_name	last_name	department
Tonny	Butterworth	Customer Service
Marjo	Giaratana	Customer Service
Xiaobin	Spinelli	Customer Service
Yuchang	Weedman	Customer Service
DeForest	Hagimont	Development
Leon	DasSarma	Development
Ebru	Alpin	Finance
Isamu	Legleitner	Finance
Shirish	Ossenbruggen	Human Resources
Karsten	Sigstam	Human Resources
Margareta	Markovitch	Marketing
Vishwani	Minakawa	Marketing
Krassimir	Wegerle	Production
Rosine	Cools	Production
Shem	Kieras	Production
Oscar	Ghazalie	Production
Peternela	Onuegbe	Quality Management
Rutger	Hofmeyr	Quality Management
Sanjoy	Quadeer	Quality Management
Dung	Pesch	Quality Management
Arie	Staelin	Research
Hilary	Kambil	Research
Przemyslaw	Kaelbling	Sales
Hauke	Zhang	Sales

24 rows in set (0.01 sec)

i) Mikä on myynnissä työskentelevien keskipalkka ?

```
mysql> select avg(salary) from dept_emp join departments on dept_emp.dept_no = departments.dept_no  
join salaries on dept_emp.emp_no = salaries.emp_no where dept_name = "Sales";
```

```
mysql> select avg(salary) from dept_em  
p_no = salaries.emp_no where dept_name  
+-----+  
| avg(salary) |  
+-----+  
| 80667.6058 |  
+-----+  
1 row in set (0.43 sec)
```

i2) Entä markkinoinnissa ?

```
mysql> select avg(salary) from dept_emp join departments on dept_emp.dept_no = departments.dept_no  
join salaries on dept_emp.emp_no = salaries.emp_no where dept_name = "Marketing";
```

```
mysql> select avg(salary) from d  
p_no = salaries.emp_no where dep  
+-----+  
| avg(salary) |  
+-----+  
| 71913.2000 |  
+-----+  
1 row in set (0.33 sec)
```