

7: Employees, osa 2

Tehtävissä käytetään Employees-tietokantaa (use employees).

- 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;
```

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 (0,14 sec)

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

```
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;
```

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 (0,13 sec)

d) Kenellä on suurin palkka?

```
mysql> select * from employees join salaries on employees.emp_no=salaries.emp_no order by salary desc limit 1;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| emp_no | birth_date | first_name | last_name | gender | hire_date | emp_no | salary | from_date | to_date |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 43624 | 1953-11-14 | Tokuyasu | Pesch | M | 1985-03-26 | 43624 | 158220 | 2002-03-22 | 9999-01-01 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (1,24 sec)
```

e) Kenellä on pienin palkka?

```
mysql> mysql> select * from employees join salaries on employees.emp_no=salaries.emp_no order by salary limit 1;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| emp_no | birth_date | first_name | last_name | gender | hire_date | emp_no | salary | from_date | to_date |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 253406 | 1953-09-23 | Olivera | Baek | M | 1994-07-04 | 253406 | 38623 | 2002-02-20 | 9999-01-01 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (1,22 sec)
```

f) Tulosta työntekijät, jotka ansaitsevat yli 150000.

```
mysql> select * from employees join salaries on employees.emp_no=salaries.emp_no where salary>150000 and to_date='9999-01-01';
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| emp_no | birth_date | first_name | last_name | gender | hire_date | emp_no | salary | from_date | to_date |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 43624 | 1953-11-14 | Tokuyasu | Pesch | M | 1985-03-26 | 43624 | 158220 | 2002-03-22 | 9999-01-01 |
| 46439 | 1953-01-31 | Ibibia | Junet | M | 1985-05-20 | 46439 | 150345 | 2002-05-15 | 9999-01-01 |
| 47978 | 1956-03-24 | Xiahua | Whitcomb | M | 1985-07-18 | 47978 | 155709 | 2002-07-14 | 9999-01-01 |
| 66793 | 1964-05-15 | Lansing | Kambil | M | 1985-06-20 | 66793 | 150052 | 2002-06-16 | 9999-01-01 |
| 80823 | 1963-01-21 | Willard | Baca | M | 1985-02-26 | 80823 | 154459 | 2002-02-22 | 9999-01-01 |
| 109334 | 1955-08-02 | Tsutomu | Alameladin | M | 1985-02-15 | 109334 | 155190 | 2002-02-11 | 9999-01-01 |
| 205000 | 1956-01-14 | Charmane | Griswold | M | 1990-06-23 | 205000 | 153715 | 2001-10-09 | 9999-01-01 |
| 237542 | 1954-10-05 | Weicheng | Hatcliff | F | 1985-04-12 | 237542 | 152687 | 2002-04-08 | 9999-01-01 |
| 238117 | 1959-06-21 | Mitsuyuki | Stanfel | M | 1988-01-03 | 238117 | 152220 | 2001-12-30 | 9999-01-01 |
| 253939 | 1957-12-03 | Sanjai | Luders | M | 1987-04-15 | 253939 | 155513 | 2002-04-11 | 9999-01-01 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+

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g) Kuinka monta työntekijää työskentelee myynnissä (Sales)? Entä markkinoinnissa (Marketing)?

```
mysql> select dept_name,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 dept_name='Marketing' and to_date='9999-01-01';
+-----+-----+
| dept_name | count(*) |
+-----+-----+
| Marketing | 14842 |
+-----+-----+
1 row in set (0,08 sec)

mysql> select dept_name,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 dept_name='Sales' and to_date='9999-01-01';
+-----+-----+
| dept_name | count(*) |
+-----+-----+
| Sales | 37701 |
+-----+-----+
1 row in set (0,10 sec)
```

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

```
mysql> select first_name, last_name, dept_name 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 | 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          |
| 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 (0,00 sec)
```

- i) Mikä on myynnissä työskentelevien keskipalkka? Entä markkinoinnissa?

```
mysql> select avg(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 dept_name='Sales';
+-----+
| avg(salary) |
+-----+
| 80667.6058 |
+-----+
1 row in set (0,25 sec)

mysql> select avg(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 dept_name='Marketing';
+-----+
| avg(salary) |
+-----+
| 71913.2000 |
+-----+
1 row in set (0,15 sec)
```