

Tehtävä 7. Employees, osa 2

Isabel Kaikkonen

TVT22SPL

a)

```
mysql> SELECT * FROM employees ORDER BY last_name ASC 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 (0.15 sec)

b)

```
mysql> SELECT * FROM employees ORDER BY last_name, first_name ASC 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 (0.15 sec)

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

5 rows in set (0.16 sec)

d), e)

```
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 (5.94 sec)

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 (5.82 sec)
```

f)

```
mysql> SELECT * FROM employees JOIN salaries ON employees.emp_no=salaries.emp_no WHERE salary > 150000;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 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 | 151115 | 1998-03-23 | 1999-03-23 |
| 43624 | 1953-11-14 | Tokuyasu | Pesch | M | 1985-03-26 | 43624 | 153166 | 1999-03-23 | 2000-03-22 |
| 43624 | 1953-11-14 | Tokuyasu | Pesch | M | 1985-03-26 | 43624 | 153458 | 2000-03-22 | 2001-03-22 |
| 43624 | 1953-11-14 | Tokuyasu | Pesch | M | 1985-03-26 | 43624 | 157821 | 2001-03-22 | 2002-03-22 |
| 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 | 151929 | 2001-07-14 | 2002-07-14 |
| 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 | 151768 | 2001-02-22 | 2002-02-22 |
| 80823 | 1963-01-21 | Willard | Baca | M | 1985-02-26 | 80823 | 154459 | 2002-02-22 | 9999-01-01 |
| 109334 | 1955-08-02 | Tsutomu | Alameldin | M | 1985-02-15 | 109334 | 151484 | 1998-02-12 | 1999-02-12 |
| 109334 | 1955-08-02 | Tsutomu | Alameldin | M | 1985-02-15 | 109334 | 154885 | 1999-02-12 | 2000-02-12 |
| 109334 | 1955-08-02 | Tsutomu | Alameldin | M | 1985-02-15 | 109334 | 155377 | 2000-02-12 | 2001-02-11 |
| 109334 | 1955-08-02 | Tsutomu | Alameldin | M | 1985-02-15 | 109334 | 154888 | 2001-02-11 | 2002-02-11 |
| 109334 | 1955-08-02 | Tsutomu | Alameldin | M | 1985-02-15 | 109334 | 155190 | 2002-02-11 | 9999-01-01 |
| 205000 | 1956-01-14 | Charmane | Griswold | M | 1990-06-23 | 205000 | 151596 | 2000-10-09 | 2001-10-09 |
| 205000 | 1956-01-14 | Charmane | Griswold | M | 1990-06-23 | 205000 | 153715 | 2001-10-09 | 9999-01-01 |
```

g)

```
mysql> SELECT 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';
+-----+
| COUNT(*) |
+-----+
| 52245 |
+-----+
1 row in set (0.80 sec)

mysql> SELECT 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';
+-----+
| COUNT(*) |
+-----+
| 20211 |
+-----+
1 row in set (0.48 sec)
```


h)

```
mysql> SELECT first_name, last_name, dept_name FROM departments
-> JOIN dept_manager ON departments.dept_no = dept_manager.dept_no
-> JOIN employees ON employees.emp_no = dept_manager.emp_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 (0.01 sec)

i)

```
mysql> SELECT AVG(Salary) FROM salaries JOIN employees ON salaries.emp_no = employees.emp_no
-> 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';
```

AVG(Salary)
71913.2000

1 row in set (1.39 sec)

```
mysql> SELECT AVG(Salary) FROM salaries JOIN employees ON salaries.emp_no = employees.emp_no
-> 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';
```

AVG(Salary)
80667.6058

1 row in set (2.25 sec)