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;

15427 1959-03-06 Aluzio Aamodt M 1985-03 18182 1963-02-23 Dekang Aamodt F 1988-05 16572 1956-11-26 Matt Aamodt M 1987-06 12791 1960-06-16 Mokhtar Aamodt M 1994-08 12516 1958-06-25 Sreenivas Aamodt F 1990-03 12982 1952-12-08 Sachem Aamodt F 1992-01	emp_no	birth_date	first_name	last_name	gender	hire_date
18182 1963-02-23 Dekang Aamodt F 1988-05 16572 1956-11-26 Matt Aamodt M 1987-06 12791 1960-06-16 Mokhtar Aamodt M 1994-08 12516 1958-06-25 Sreenivas Aamodt F 1990-03 12982 1952-12-08 Sachem Aamodt F 1992-01	11761	1964-07-17	Bartek	Aamodt	M	1991-06-12
16572 1956-11-26 Matt Aamodt M 1987-06 12791 1960-06-16 Mokhtar Aamodt M 1994-08 12516 1958-06-25 Sreenivas Aamodt F 1990-03 12982 1952-12-08 Sachem Aamodt F 1992-01	15427	1959-03-06	Aluzio	Aamodt	М	1985-03-03
12791 1960-06-16 Mokhtar Aamodt M 1994-08 12516 1958-06-25 Sreenivas Aamodt F 1990-03 12982 1952-12-08 Sachem Aamodt F 1992-01	18182	1963-02-23	Dekang	Aamodt	F	1988-05-25
12516 1958-06-25 Sreenivas Aamodt F 1990-03 12982 1952-12-08 Sachem Aamodt F 1992-01	16572	1956-11-26	Matt	Aamodt	М	1987-06-16
12982 1952-12-08 Sachem Aamodt F 1992-01	12791	1960-06-16	Mokhtar	Aamodt	M	1994-08-14
	12516	1958-06-25	Sreenivas	Aamodt	F	1990-03-06
47400 4000 00 00 D-2-	12982	1952-12-08	Sachem	Aamodt	F	1992-01-11
1/400 1962-03-22 Basim Aamodt F 1991-09	17400	1962-03-22	Basim	Aamodt	F	1991-09-15
19898 1957-03-09 Vidar Aamodt M 1988-08	19898	1957-03-09	Vidar	Aamodt	M	1988-08-06
17885 1954-02-01 Takanari Aamodt M 1996-08	17885	1954-02-01	Takanari	Aamodt	M	1996-08-19

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

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

mysql> SEL	ECT *FROM emp	oloyees ORDER	BY last_nam	e, 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 nows in	cot (0 00 c	+	+	+	++

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	_	. –			
463807 428377 499553 222965 47291	1964-06-12 1957-05-09 1954-05-06 1959-08-07 1960-09-09	Bikash Yucai Hideyuki Volkmar Ulf	Covnot Gerlach Delgrande Perko Flexer	M M F F	2000-01-28 2000-01-23 2000-01-22 2000-01-13 2000-01-12		
5 rows in set (0.07 sec)							

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

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

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

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

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;

```
mysql> SELECT employees.first_name, employees.last_name, salaries.salary FROM employees JOIN salaries ON employees.em
p_no = salaries.emp_no WHERE salaries.salary > 150000;
  first_name | last_name | salary
                 Pesch
  Tokuvasu
                                151115
  Tokuyasu
                 Pesch
                                153166
                                153458
  Tokuyasu
                 Pesch
  Tokuyasu
                 Pesch
                               157821
                               158220
  Tokuyasu
                 Pesch
  Ibibia
                                150345
                  Junet
                  Whitcomb
                                151929
  Xiahua
                 Whitcomb
```

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';

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';

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;

```
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
                    Butterworth
  Tonny
                                       Customer Service
                                       Customer Service
  Xiaobin
                    Spinelli
                                       Customer Service
  Yuchang
                    Weedman
                                       Customer Service
  DeForest
                    Hagimont
                                       Development
                                       Development
  Ebru
                    Alpin
                                       Finance
                    Legleitner
  Tsamu
                                       Finance
  Shirish
                    Ossenbruggen |
                                      Human Resources
                    Sigstam
                                       Human Resources
  Margareta
                    Markovitch
                                       Marketing
```

i) Mikä on myynnissä työskentelevien keskipalkka? Entä markkinoinnissa?

mysql> SELECT AVG(salaries.salary) as average_sales_salary FROM salaries JOIN
dept_emp ON salaries.emp_no = dept_emp.emp_no JOIN departments ON
dept_emp.dept_no = departments.dept_no WHERE departments.dept_name = 'Sales';