

```
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 (0.22 sec)

a)

```
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 (0.16 sec)

b)

```
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 (0.14 sec)

c)

```
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;
```

first_name	last_name	salary
Tokuyasu	Pesch	158220

1 row in set (1.93 sec)

d)

```
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 ASC LIMIT 1;
```

first_name	last_name	salary
Olivera	Baek	38623

1 row in set (1.94 sec)

e)

```
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;
```

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

f)

```
mysql> SELECT COUNT(dept_emp.dept_no) AS SALES_COUNT FROM dept_emp JOIN departments ON dept_emp.dept_no=departments.dept
_no WHERE departments.dept_name IN ("sales","Marketing") GROUP BY departments.dept_name;
```

SALES_COUNT
20211
52245

2 rows in set (0.06 sec)

g)

```
mysql> SELECT employees.first_name, employees.last_name, departments.dept_name FROM dept_manager JOIN departments ON dep
t_manager.dept_no=departments.dept_no JOIN employees ON dept_manager.emp_no=employees.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
Fbru	Alnin	Finance

h)

```
mysql> SELECT departments.dept_name AS department_name,
-> AVG(salaries.salary) AS average_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 departments.dept_name IN ("Sales", "Marketing") GROUP BY departments.dept_name;
```

department_name	average_salary
Marketing	71913.2000
Sales	80667.6058

2 rows in set (1.02 sec)

i)