```
first_name
   emp no
            birth date
                                          last name
                                                        gender
                                                                  hire_date
   11761
             1964-07-17
                            Bartek
                                          Aamodt
                                                                   1991-06-12
                            Aluzio
                                                                   1985-03-03
             1959-03-06
                                           Aamodt
   18182
16572
            1963-02-23
1956-11-26
                           Dekang
Matt
                                                                  1988-05-25
1987-06-16
                                          Aamodt
                                           Aamodt
            1960-06-16
1958-06-25
                                                                  1994-08-14
1990-03-06
    12791
                            Mokhtar
                                           Aamodt
    12516
                            Sreenivas
                                          Aamodt
   12982
17400
            1952-12-08
1962-03-22
                            Sachem
                                           Aamodt
                                                                  1992-01-11
1991-09-15
                            Basim
                                          Aamodt
                                                        M
   17885
            1954-02-01
                            Takanari
                                          Aamodt
                                                                  1996-08-19
 l0 rows in set (0.40 sec)
                                                                                    a) Järjestys sukunimen mukaan
 ysql> select * from employees ORDER BY last_name, first_name LIMIT 10;
                           first name
                                                                 hire date
            birth date
                                         last name
                                                       gender
                           Abdelkader
  258641
            1961-05-23
                                         Aamodt
                                                                 1994-12-02
  258005
455773
            1953-02-17
1960-05-04
                           Adhemar
Aemilian
                                                                 1991-01-21
1988-04-21
                                                       M
F
                                         Aamodt
  436560
266651
            1959-03-16
1959-05-28
                          Alagu
Aleksander
                                                                 1991-10-17
1989-03-29
                                          Aamodt
                                         Aamodt
  487598
216963
            1962-03-03
1960-07-16
                           Alexius
Alois
                                                                 1994-12-30
1995-08-24
                                          Aamodt
                                                       M
M
M
F
                                         Aamodt
  15427
100860
            1959-03-06
1964-06-20
                          Aluzio
Amabile
                                         Aamodt
Aamodt
                                                                 1985-03-03
1993-02-06
  107070
            1954-04-24
                           Anestis
                                         Aamodt
                                                                 1990-10-30
 l0 rows in set (0.48 sec)
 nysql>
                                                                                   b)Järjestys suku- ja etunimen mukaan
 nysql> select * from employees order by hire_date desc LIMIT 5;
                            first_name
            birth date
                                          last name
                                                                  hire date
  emp no
                                                        gender
  463807
             1964-06-12
                            Bikash
                                                                   2000-01-28
  428377
                            Yucai
                                           Gerlach
                           Hideyuki
Volkmar
  499553
             1954-05-06
                                          Delgrande
Perko
                                                                  2000-01-22
  222965
   47291
            1960-09-09
                           Ulf
                                          Flexer
                                                                  2000-01-12
  rows in set (0.19 sec)
                                                                                   c)5 Viimeksi palkattua työntekijää
  ysql> select * from employees join salaries on employees.emp_no=salaries.emp_no where salary=(select max(salary) from
                                                                                                                            to_date
             birth_date |
                             first_name
                                             last_name
                                                           gender
                                                                       hire_date
                                                                                       emp_no |
                                                                                                 salary
                                                                                                             from_date
                                                           М
                                                                       1985-03-26
                                                                                                            2002-03-22
                                                                                                                            9999-01-01
              1953-11-14
                                             Pesch
                                                                                        43624
                                                                                                 158220
    43624
                             Tokuyasu
  row in set (2.28 sec)
d)Työntekijä jolla suurin palkka
  ysql> select * from employees join salaries on employees.emp_no=salaries.emp_no where salary=(select min(salary) from
   emp no
              birth_date |
                             first_name
                                             last_name
                                                           gender
                                                                      hire_date
                                                                                      emp_no
                                                                                                 salary
                                                                                                            from_date
                                                                                                                            to_date
                                                           М
   253406
              1953-09-23
                             Olivera
                                             Baek
                                                                       1994-07-04
                                                                                      253406
                                                                                                  38623
                                                                                                            2002-02-20
                                                                                                                            9999-01-01
   row in set (2.42 sec)
```

e)Työntekijä jolla pienin palkka

```
mysql> select * from employees join salaries on employees.emp_no=salaries.emp_no where salary>150000;
                                                      gender
           birth date
                          first name
                                                                hire date
                                                                                        salary
                                                                                                   from date
  emp no
                                        last name
                                                                              emp no
                                                                                                                 to date
   43624
            1953-11-14
                          Tokuyasu
                                         Pesch
                                                                1985-03-26
                                                                               43624
                                                                                         151115
                                                                                                   1998-03-23
                                                                                                                 1999-03-23
                                                                                                   1999-03-23
            1953-11-14
                                                                1985-03-26
                                                                               43624
                                                                                                                 2000-03-22
   43624
                          Tokuyasu
                                         Pesch
                                                                                        153166
            1953-11-14
                                                                                        153458
  43624
                          Tokuyasu
                                         Pesch
                                                                1985-03-26
                                                                               43624
                                                                                                   2000-03-22
                                                                                                                 2001-03-22
            1953-11-14
                                                                                        157821
                                                                                                   2001-03-22
   43624
                          Tokuyasu
                                         Pesch
                                                                1985-03-26
                                                                               43624
                                                                                                                 2002-03-22
                          Tokuyasu
   43624
           1953-11-14
                                         Pesch
                                                                1985-03-26
                                                                               43624
                                                                                        158220
                                                                                                   2002-03-22
                                                                                                                 9999-01-01
   46439
            1953-01-31
                          Ibibia
                                         Junet
                                                                1985-05-20
                                                                                46439
                                                                                         150345
                                                                                                   2002-05-15
                                                                                                                 9999-01-01
   47978
                                                                1985-07-18
                                                                               47978
            1956-03-24
                                                                                                   2001-07-14
                                                                                                                 2002-07-14
                                         Whitcomb
                                                                                        151929
                          Xiahua
                                                                               47978
  47978
            1956-03-24
                          Xiahua
                                         Whitcomb
                                                                1985-07-18
                                                                                         155709
                                                                                                   2002-07-14
                                                                                                                 9999-01-01
   66793
            1964-05-15
                          Lansing
                                         Kambil
                                                                1985-06-20
                                                                               66793
                                                                                         150052
                                                                                                   2002-06-16
                                                                                                                 9999-01-01
   80823
            1963-01-21
                          Willard
                                         Baca
                                                                1985-02-26
                                                                               80823
                                                                                        151768
                                                                                                   2001-02-22
                                                                                                                 2002-02-22
            1963-01-21
                                                                                                                 9999-01-01
   80823
                          Willard
                                         Baca
                                                                1985-02-26
                                                                               80823
                                                                                         154459
                                                                                                   2002-02-22
                                                                1985-02-15
                                                                                                   1998-02-12
                                                                                                                 1999-02-12
  109334
           1955-08-02
                          Tsutomu
                                         Alameldin
                                                                               109334
                                                                                        151484
  109334
           1955-08-02
                          Tsutomu
                                         Alameldin
                                                                1985-02-15
                                                                               109334
                                                                                         154885
                                                                                                   1999-02-12
                                                                                                                 2000-02-12
  109334
           1955-08-02
                          Tsutomu
                                         Alameldin
                                                                1985-02-15
                                                                               109334
                                                                                        155377
                                                                                                   2000-02-12
                                                                                                                 2001-02-11
  109334
109334
                                                                1985-02-15
1985-02-15
            1955-08-02
                          Tsutomu
                                         Alameldin
                                                                               109334
                                                                                         154888
                                                                                                   2001-02-11
                                                                                                                 2002-02-11
                                                                              109334
           1955-08-02
                                                                                        155190
                                                                                                                 9999-01-01
                                                                                                   2002-02-11
                          Tsutomu
                                         Alameldin
  205000
            1956-01-14
                                         Griswold
                                                                1990-06-23
                                                                               205000
                                                                                         151596
                                                                                                   2000-10-09
                                                                                                                 2001-10-09
                          Charmane
                                         Griswold
  205000
           1956-01-14
                          Charmane
                                                                1990-06-23
                                                                               205000
                                                                                        153715
                                                                                                   2001-10-09
                                                                                                                 9999-01-01
  237542
           1954-10-05
                          Weicheng
                                         Hatcliff
                                                                1985-04-12
                                                                              237542
                                                                                        150994
                                                                                                   2001-04-08
                                                                                                                 2002-04-08
                                        Hatcliff
Stanfel
            1954-10-05
  237542
                          Weicheng
                                                                1985-04-12
                                                                               237542
                                                                                         152687
                                                                                                   2002-04-08
                                                                                                                 9999-01-01
           1959-06-21
                                                                1988-01-03
                                                                              238117
                                                                                        152220
                                                                                                   2001-12-30
                                                                                                                 9999-01-01
  238117
                          Mitsuvuki
                                                                                                   2000-04-11
            1957-12-03
                                                                1987-04-15
  253939
                          Sanjai
                                         Luders
                                                                              253939
                                                                                         150378
                                                                                                                 2001-04-11
  253939
            1957-12-03
                          Sanjai
                                         Luders
                                                                1987-04-15
                                                                              253939
                                                                                         154227
                                                                                                   2001-04-11
                                                                                                                 2002-04-11
  253939
           1957-12-03
                          Sanjai
                                         Luders
                                                                1987-04-15
                                                                              253939
                                                                                         155513
                                                                                                   2002-04-11
                                                                                                                 9999-01-01
  254466
            1963-05-27
                          Honesty
                                         Mukaidono
                                                                1986-08-08
                                                                               254466
                                                                                         150754
                                                                                                   1999-08-05
                                                                                                                 2000-08-04
  254466
           1963-05-27
                          Honesty
                                         Mukaidono
                                                                1986-08-08
                                                                               254466
                                                                                        152576
                                                                                                   2000-08-04
                                                                                                                 2001-08-04
  254466
            1963-05-27
                          Honesty
                                         Mukaidono
                                                                1986-08-08
                                                                               254466
                                                                                         156286
                                                                                                   2001-08-04
                                                                                                                 9999-01-01
  266526
           1957-02-14
                          Weijing
                                         Chenoweth
                                                                1986-10-08
                                                                              266526
                                                                                        151080
                                                                                                   2000-10-04
                                                                                                                 2001-10-04
            1957-02-14
                                                                1986-10-08
1987-10-08
  266526
                          Weijing
                                         Chenoweth
                                                                               266526
                                                                                         152710
                                                                                                   2001-10-04
                                                                                                                 9999-01-01
            1954-01-27
                                                                               276633
                                                                                        150467
                                                                                                   2000-10-04
                                                                                                                 2001-10-04
  276633
                          Shin
                                         Birdsall
                                                                1987-10-08
  276633
           1954-01-27
                          Shin
                                         Birdsall
                                                                               276633
                                                                                        152412
                                                                                                   2001-10-04
                                                                                                                 9999-<mark>01-0</mark>1
  279776
            1955-05-06
                          Mohammed
                                         Moehrke
                                                                1986-06-10
                                                                              279776
                                                                                         150740
                                                                                                   2002-06-06
                                                                                                                 9999-01-01
  493158
            1961-05-20
                          Lidong
                                         Meriste
                                                                1987-05-09
                                                                              493158
                                                                                        150993
                                                                                                   1999-05-06
                                                                                                                 2000-05-05
                                                                1987-05-09
  493158
            1961-05-20
                          Lidong
                                         Meriste
                                                                              493158
                                                                                         151565
                                                                                                   2000-05-05
                                                                                                                 2001-05-05
  493158
            1961-05-20
                                                                1987-05-09
                                                                              493158
                                                                                                   2001-05-05
                          Lidong
                                         Meriste
                                                                                        152208
                                                                                                                 2002-05-05
                          Lidong
                                         Meriste
                                                                1987-05-09
 493158
           1961-05-20
                                                                              493158
                                                                                         154376
                                                                                                   2002-05-05
                                                                                                                 9999-01-01
36 rows in set (2.77 sec)
mvsal>
```

f)Työntekijät joiden palkka yli 150 000

g)Työntekijöiden määrä myynnisää ja markkinoinnissa

```
ysql> select employees.first_name, employees.last_name, departments.dept_name from dept_manager
    -> join employees on dept_manager.emp_no=employees.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
                Spinelli
                               Customer Service
 Xiaobin
  Yuchang
                Weedman
                               Customer Service
 DeForest
                Hagimont
                               Development
                DasSarma
                               Development
  Leon
 Ebru
                Alpin
                               Finance
                Legleitner
                               Finance
  Isamu
               Ossenbruggen
 Shirish
                               Human Resources
  Karsten
                Sigstam
                                Human Resources
 Margareta
                Markovitch
                                Marketing
                Minakawa
                               Marketing
 Vishwani
  Krassimir
                Wegerle
                               Production
 Rosine
                Cools
                               Production
                Kieras
                               Production
 Shem
                Ghazalie
                               Production
 0scar
 Peternela
                Onuegbe
                                Quality Management
                Hofmeyr
                               Quality Management
 Rutger
                               Quality Management
Quality Management
                Quadeer
 Sanjoy
 Dung
                Pesch
 Arie
                Staelin
                                Research
 Hilary
                Kambil
                               Research
                Kaelbling
 Przemyslawa
                               Sales
 Hauke
               Zhang
                               Sales
24 rows in set (0.00 sec)
mysql>
```

h) Osastojen nimet ja niiden johtajat

i) Mynnissä ja markinoinnissa työskentelevien keskipalkat